

micro Adventurer

January 1984 75p

**Programming
techniques
explored**

**Games to
type in
and play**

**On the trail
of the best
adventures**



**Playing the
stars by mail**



COMPETITION
Twenty Roman
Empires to
be won

LORDS OF TIME

Joins our range of acclaimed pure-text puzzle adventures, at £9.90, for:

BBC 32K **COMMODORE 64** **SPECTRUM** 48K **LYNX** 48K **NASCOM** 32K **ORIC** 48K **ATARI** 32K

ADVENTURE REVIEWS

"Adventures which have a fast response time, are spectacular in the amount of detail and number of locations, and are available to cassette owners... I am extremely impressed... The Level 9 Adventures are superbly designed and programmed, the contents first rate. The implementation of Colossal Cave (Adventure) is nothing short of brilliant; rush out and buy it. While you're at it, buy their others too. Simply smashing!"

— **SOFT**, Sept 83

"I found Dungeon exceedingly well planned and written, with a fast response. There are well over 200 locations and the descriptions are both lengthy and interesting. The objects number about 100. It could therefore take some months to explore the whole network, giving many hours of enjoyment in the process."

— **C&VG**, Sept 83

"The descriptions are so good that few players could fail to be ensnared by the realism of the mythical worlds where they are the hero or heroine... great fun to play."

— **Which Micro?**, Aug 83

"My appetite has been whetted and I intend to get my own copy (of Snowball) to play."

— **What Micro?**, Dec 83



ADVENTURE REVIEWS

"This has to be the bargain of the year. If adventures are your game then this (Colossal Adventure) is your adventure."

— **HCW**, 5 Sept 83

"Colossal Adventure is simply superb. Anyone who wishes to use adventures in an educational setting really must use and see this program as it emulates Crowther and Wood's masterpiece so well. For those who wish to move onto another adventure of similar high quality, Dungeon Adventure is to be recommended. With more than 200 locations, 700 messages and 100 objects it will tease and delight!"

— **Educational Computing**, Nov 83

Colossal Adventure is included in Practical Computing's Top 10 games choice: "Poetic, moving and tough as hell."

— **PC**, Dec 83

"To sum up, Adventure Quest is a wonderful program, fast, exciting and challenging. If you like adventures then this one is for you"

— **NILUG #1.3**

"Colossal Adventure... For once here's a program that lives up to its name... a masterful feat. Thoroughly recommended"

— **Computer Choice**, Dec 83

"wholly admirable"

— **Your Computer**, Sept 83

MIDDLE EARTH ADVENTURES

1: COLOSSAL ADVENTURE

A complete, full size version of the classic mainframe game "Adventure" with 70 bonus locations added.

2: ADVENTURE QUEST

Centuries have passed since the time of Colossal Adventure and evil armies have invaded The Land. The way is long and dangerous; but with cunning you can overcome all obstacles on the way to the Black Tower, source of their demonic power, and destroy it.

3: DUNGEON ADVENTURE

The trilogy is completed by this superb adventure, set in the Dungeons beneath the shattered Black Tower. A sense of humour is essential!

THE FIRST SILICON DREAM ADVENTURE

1: SNOWBALL

The first of Pete Austin's second trilogy. The giant colony starship, Snowball 9, has been sabotaged and is heading for the sun in this massive game with 7000 locations.

THE LORDS OF TIME SAGA

7: LORDS OF TIME

Our congratulations to Sue Gazzard for her super design for this new time travel adventure through the ages of world history. Chill to the Ice-age, go romin' with Caesar's legions, shed light on the Dark Ages etc. etc. We'll be selling this game mail-order from January 1st.

Price: £9.90 each (inclusive)

Level 9 adventures are available from good computer shops, or mail-order from us at no extra charge. Please send order, or SAE for catalogue, to:

LEVEL 9 COMPUTING

Dept V, 229 Hughenden Road, High Wycombe, Bucks HP13 5PG

Please describe your Computer

micro Adventurer

Editor
Graham Cunningham

Assistant Editor
Carmel Anderson

Software Editor
Graham Taylor

Master Adventurers
Tony Bridge
Mike Grace

Editorial Secretary
Cleo Cherry

Advertisement Manager
David Lake

Advertisement Executive
Simon Langston

Administration
Theresa Lacy

Managing Editor
Brendon Gore

Publishing Director
Jenny Ireland

Telephone number
(all departments)
01-437 4343

UK address
Micro Adventurer, 12-13 Little Newport
Street, London WC2R 3LD

US address
Micro Adventurer, c/o Business Press
International, 205 East 42nd Street, New
York, NY 10017

Subscriptions
UK £10.00 for 12 issues, overseas surface
(excluding US and Canada) £16 for 12
issues, US and Canada air-lifted US\$33.95
for 12 issues.

Micro Adventurer is published monthly by
Sunshine Books, Scot Press Ltd. Typesetting by
In-Step Ltd, 77 Farringdon Road, London
EC1. Printed by Eden Fisher (Southend) Ltd,
Southend-on-Sea, Essex. Distributed by SM
Distribution, London SW9 (telephone 01-274
8611, telex: 261643). ISSN 0265-4156.
Registered at the Post Office as a newspaper.
© Sunshine Books 1984.



Adventures • War Games • Simulations

Letters

Your opinions on adventures, a place to turn to for help, and some advice from fellow adventurers

5

News

New adventures from Richard Shepherd including one from Peter Cooke, author of *Invincible Island*, a naval war game and a modern tactical warfare master program from *Lothlorien*, and a £10,000 competition

7

The Quill in depth

Tony Bridge reviews *The Quill* from Gilsoft which is an interpreter program that gives adventure players the chance to write their own game

9

Mapping fantasy land

Map compression is one of the first, important steps a programmer should take when writing an adventure and here BBC owners are shown how this is done with PEEK, POKE and BIT manipulation

11

Conquering the stars



From a humble beginning with only five players two years ago, Mike Singleton's *Starlord*, Britain's first computer-moderated play-by-mail game may soon enter the electronic age.

17

Valley of Death

An important feature of the valley is still missing and this month Brian Lloyd shows you how to add it to the program, completing the scenario

19

Software Inventory

On the trail of the best adventures this month, we include *Wizardry III: The Legacy of Llylgamyn*, for the Apple, *Ghost Town* and *Invincible Island*, for the Spectrum 48K, *Knife of Kishtu*, for the Dragon 32, and *Quest of Merravid*, for the Commodore 64 and Vic 20, among others (front cover illustration by Stuart Hughes)

23

Role-playing games

The techniques programmers use when writing role-playing games or adventures explained

30

Your Adventures

An auto repeat facility for the ZX81 and a ZX Spectrum game called *Castaway* where the player must refit a boat with objects that are scattered around a tropical island

34

Adventure File

The most comprehensive list available of war games, life simulations and adventures

41

Adventure Help/Contact

Write to Tony Bridges if you need help or have some to offer — or try our contact column if you want to reach fellow adventurers

48

Competition Corner

Being happy with your successful journey through the hex Tisch feeds you and then sets another task for you to complete, and for your trouble you could win Roman Empire from *Lothlorien*

50

EDITORIAL

ONE OF THE DILEMMAS faced by a magazine such as *Micro Adventurer* is how much help to give readers. While you may be spending your time wondering which treasure has the greater value, we're spending ours wondering whether to tell you.

If we offer individuals help we'll reduce their frustration but we may also reduce their pleasure in solving the adventure. And clues we publish may be read by adventurers who would have preferred to pursue their own paths. We could, of course, print early warnings before the advice appears — as newscasters do when they advise sports fans to turn down the sound if they want to avoid hearing the result of a game to be televised later. So we could warn that a clue to the *Hobbit* was coming, advising readers keen to get out of the goblin's dungeon under their own steam to wear opaque glasses for the next few lines. Another possibility is to offer gnomish clues so that readers have to exercise some ingenuity in interpreting the advice. The risk here is that readers won't be able to tell when we're being gnomish and when we're just using fancy language. Writing about adventurers getting out of the dungeon under their own steam might lead to Thorin receiving more maltreatment than even he's entitled to. The other obvious risk is that elliptical clues can cause more confusion than they're worth — it's bad enough trying to get out of the dungeon without also having to unravel some helpful but obscure piece of advice.

One solution to this dilemma is (surprise, surprise) to let readers sort it out for themselves — by using our Adventure Contact column. If you fill in the form then readers more successful than you will be able to come to your rescue. And if you read the entries then you may be able to do the rescuing. We'd like to extend this section so keep on sending the entries — and let us know how you get on once you've established contact. Another solution also requires readers' help. There are too many adventures on the market now for one magazine to know all the answers. And believe me we get stuck too — there's no sadder sight than a team of "experts" stymied before a TV set. It's even worse if you have to write a review of an adventure whose first phase defeats you, leaving no hope of solving the tenth in time to reach your deadline. So send us any advice you have to offer and we'll put it on file, or if you're willing to help with certain adventures write in and we'll publish your letter. Again we look forward to hearing from you.

HAVE YOU BEEN INVOLVED IN A MYSTERIOUS ADVENTURE RECENTLY?

If so, it is quite probable that you are presently suffering from TIS, more commonly known as Total Involvement Syndrome.

TIS manifests itself in a number of ways, one of the most dramatic symptoms being a victim's complete inability to feel at ease in the world of reality. Other symptoms include insomnia, a desperate need to play a Mysterious Adventure, and an overwhelming sense of acute enjoyment.

Experts believe that TIS is usually contracted as a result of prolonged exposure to Mysterious Adventures, commonly caused by owning any of the following Home Computers:

48K SPECTRUM, BBC MODEL A OR B, TRS80, COLOUR GENIE, ATARI 400/800, COMMODORE 64, DRAGON 32, ZX31, LYNX etc.

When questioned about this epidemic, a representative of DIGITAL FANTASIA, a company who are actively involved in research and development work on Mysterious Adventures said, "There is probably no cure for TIS other than mains failure, faulty RAM chips etc. which can be at best only a Temporary solution". "In the absence of a more permanent cure, I would advise TIS sufferers to submit to the Syndrome and obtain Mysterious Adventures from any sources available to them". "TIS is highly contagious and in view of the current Worldwide Epidemic, I would say enjoy it while you can, resistance is futile".

If you have a BBC Computer or a 48K SPECTRUM, you can obtain Mysterious Adventures direct from DIGITAL FANTASIA in any of the following dosages:

- | | | |
|----------------------------|---------------------------|--------------------------|
| 1) THE GOLDEN BATON | 5) ESCAPE FROM PULSAR 7 | 8) THE WIZARD AKYRZ |
| 2) THE TIME MACHINE | 6) CIRCUS | 9) PERSEUS AND ANDROMEDA |
| 3) ARROW OF DEATH (PART 1) | 7) FEASIBILITY EXPERIMENT | 10) TEN LITTLE INDIANS |
| 4) ARROW OF DEATH (PART 2) | | |

Each game contains a full V.A.T. and Postage. Excellent Quantity Discounts are available for Pushers.

BEWARE! Mysterious Adventures CAN SERIOUSLY DAMAGE YOUR SENSE OF REALITY.



SEND CHEQUE OR P.O. TO:

DIGITAL FANTASIA

24 NORBRECK ROAD, NORBRECK
BLACKPOOL, LANCs. FY5 1RP
TEL. (0253) 591402

LETTERS

Send your hints, successes, complaints and compliments to Letters Page, Micro Adventurer, 12-13 Little Newport St, London WC2R 3LD

Leisure time well spent

BEING semi-retired I thought that I would have to spend my leisure time knitting, reading or watching tv, but not any more.

I now spend my time deciding whether to kill the dragon with my bare hands, which can sometimes be amazingly successful, or looking for a key to open a door, cupboards or chests. You never know what's lying around the corner.

Although some of the graphic adventures are very good I still prefer the text-only ones where I can let my imagination paint the scenery. Your new magazine will certainly help me in my fireside adventures.

M. Maloney,
32 Beverley Rd,
Liverpool.

Finding an ending . . .

COULD A reader of this magazine please help me? I have The Hobbit adventure game. I start the game and I get all the equipment . . . the sword, rope, golden key, Thrain's key (small curious key), the map, golden ring, trolls' key, treasure. But when I arrive home I don't know how to END the game.

Darren Loren,
237 High St,
Henley-in-Arden,
Solihull,
West Midlands.

poses a riddle . . .

I HAVE had The Hobbit for about three months and have visited many of the places in the adventure from the com-

fortable tunnel-like hall and Rivendell to the Elves' Dungeon, the forest river and the magic door.

My highest score is 86%. If anyone cares to write to me at the address below and send a stamped addressed envelope, I can tell them a way out of the goblins' dungeon, a place where most people get stuck.

In return for that clue I would be pleased to find out how to get through the magic door and how to uncode Gollum's riddle. Which animal is it that has four feet in the morning, two at mid-day and three in the evening?

Adrian Jones,
Cotswold Avenue,
Kettering.

to fans of the Hobbit

I HAVE some queries about The Hobbit which I hope a reader might answer.

The first one I am surprised has not been asked before in other magazines: what is the function of the golden key? My brother and I have tried many things, but to no avail. Does it just increase your score and have no other function? Can you ever pass through the empty place?

The next question concerns pages six and seven of the instruction booklet in which they give the following examples: take the lamp and the rope out of the barrel. Drop the short and the long swords. Take the money and run. Open all except the green bottle. Drink beer. Are all these examples or does the lamp, short and long swords,

money, green bottle and beer exist in the adventure?

Stephen Flight,
Honley Rd,
London.

Missing a pirate

MY FRIEND owns a BBC and has had some difficulty playing Level 9's Colossal Adventure. Could anyone tell us how to pass the oriental dragon and where the pirate hides?

Malcolm Bennie,
Fraser Gardens,
Kirkintilloch,
Glasgow.

Comparing programs

I'M WRITING this letter while playing Velnor's Lair. I'm just reloading my saved game having been killed again. I can heartily recommend this adventure.

Which is more than I can say for the Hobbit. I've spent my hard-earned cash on this program. The blurb says that the adventure follows the book very closely, but I find that it doesn't. I've only got as far as the trolls and I can't say "Don't eat me" or similar, as in the book. Consequently I get eaten. I know I've got to get the key and wait for dawn, but how? I'm going mad on this one.

I thoroughly enjoyed Faustus Folly. I think it is one of the best adventures for the Spectrum available, but has not had the publicity it deserves.

It is far and away better than Planet of Death from Artic.

My wife completed Planet very easily and it was our first adventure.

But back to Velnor, which has just killed me again. One bug that I have found is that the program crashes sometimes when deleting input spelling mistakes and when scrolling. When this happens RUN doesn't work but GOTO 5 will take you to the beginning again.

I've got lots of tips for this program but being quite new to it I'll keep an eye on other peoples' progress through Tony Bridge's column.

I wouldn't mind writing to a Spectrum adventurer to exchange ideas and information. Perhaps we could get a national mail helpline going.

Another frustrating adventure is in the book *Over the Spectrum*. Unless I've typed it in wrong it's very hard. I've hardly progressed at all finding a locked door, a kitchen, a table, booze and an endless desert. Any tips would be gratefully received.

I'll wind up with a few ideas for adventures. I can't program well but should someone have a go at Michael Moorcock's *Warhound and World's Pain* or *Warrior of Mars* I'd be more than interested.

Tony Close,
Congleton,
Cheshire.

A D&D game control

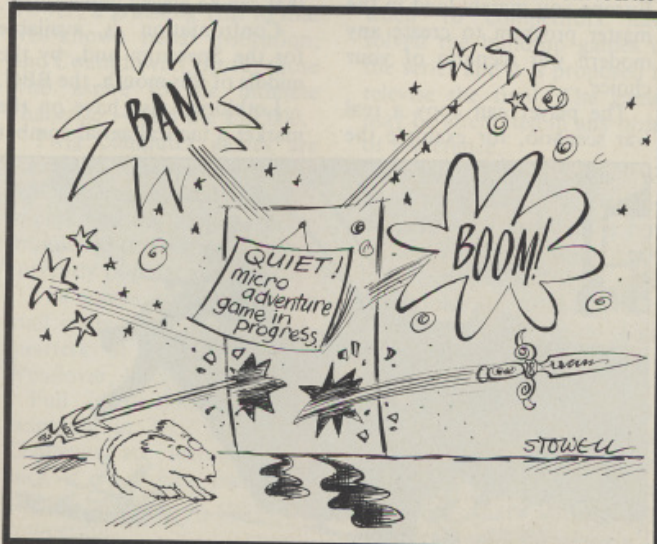
I HAVE written a D & D game control program which runs on a Sharp MZ 80K computer.

This program relieves the DM of the routine "book-keeping" chores of a Basic D & D adventure. It handles all aspects of combat (missile and melee), wandering monster production, routine tasks (listening at, opening doors etc.), as well as subsidiary dice throwing and character sheet production.

The program still allows the DM to fudge results to suit his party and is not a strict controller of the game as are other game control programs.

The program runs in 30K and is written so that it can be translated to other machines with the minimum of effort.

Brian Johnson,
Highfield Road,
Saxilby, Lincoln.



NEWS DESK

If you think you've
something
newsworthy, call
01-437 4343 and let us
know

Microdrive option available

ADVENTURE game software producers Richard Shepherd has released a cash controller program with a save-to-ZX microdrive option in the main menu.

The microdrive allows the user to save the program onto a blank microdrive cartridge.

Using the ZX microdrive, the cash controller can be loaded in 90 seconds on the Spectrum 48K.

Cash Controller with ZX microdrive costs £9.95.

Urban nightmare introduced to imagination series

NEW ADVENTURES in store for the New Year include Richard Shepherd's Urban Upstart, from the Adventures into Imagination series.

Written for the Spectrum by Peter Cooke, the author of Invincible Island, the program challenges the player to escape from a nightmare 1980s town.

In Scarthorpe a resident's every action is under scrutiny. You can be jailed for littering.

The game begins in a house where you plot your escape. And if you are not astute enough, you could end up where you started from, or almost.

If you're jailed for some minor offence, or caught in the rain without an umbrella, catch pneumonia and go to hospital, your efforts to escape have come to naught. You start again.

Some of the 90 locations include a fish and chip shop, where there is a red herring on the counter, a book shop, where you can find out valuable information, and a cash

dispenser for money.

No help program has been supplied with Urban Upstart as there was with Invincible Island.

Designed to take some pressure off the company and to provide players with hints to

the game, Richard Shepherd found that the help program increased the customers' confusion.

"This time we'll supply help sheets to those who write to us asking for information," he said.

Board game firm on road to recovery

THE company founded to market Dungeons and Dragons, TSR Hobbies Inc, is looking at methods of improving its poor finances.

After high profits in the 1983 fiscal year the company has experienced growing pains. Management was forced to write off one company and lay off workers just after a recruitment drive.

They also experienced production problems and failed with a diversification project which included a move into computer software.

A new team of managers has

been hired to smooth out the problems.

With a coherent system of planning the managers will divide TSR into four.

In the new system, TSR Inc will publish games and books, TSR Ventures Inc will supervise trademark licensing, TSR Worldwide will manage international sales and Dungeons and Dragons Entertainment Corporation will produce cartoons.

The managers believe that the new system will ensure that one venture's failure won't handicap other operations.

Win wars the strategic way

WAR STRATEGY features in two recent releases from Lothlorien, Dreadnaught and Confrontation.

Dreadnaught is a naval war game set in 1914. The British fleet confronts the Germans, who are about to launch an attack on Britain.

The game is designed for two players who choose their sides and the victory criteria. The computer acts as referee.

After deciding how many ships are to be lost before a victory is declared, the players call up their security information.

Here they are told what their strength is, the size of the fleet and their quantity of ammunition. But neither opponent knows how strong his enemy is.

Using the security information the players give battle instructions to their ships.

The player can see his own ships and a few (if any) of the enemy's ships that may appear on the screen.

Dreadnaught is available for the Spectrum 48K.

In Confrontation, a modern tactical warfare master program, the players get to choose their own battleground setting.

Whether you want to fight in Vietnam, the Middle East or Europe you merely load in the master program to create any modern war scenario of your choice.

The player can copy a real war scenario, for example the

Battle of Alamein, into the computer using Confrontation's facility to position mountains, hills or airfields to recreate the battle scene.

With the master program the player receives a game of a modern European war scenario that can be played immediately.

Confrontation is available for the Spectrum and, by the middle of this month, the BBC.

Lothlorien also have on the market a tactical aerial combat

game for the Spectrum 48K.

Called Red Baron, the player, from the cockpit of his World War I Sopwith Camel, fights two ace enemy pilots.

You must control your altitude, the direction in which you move and other variables in order to attack enemy planes and avoid their fire.

If your strength holds out, and your plane is not too badly damaged, you may get through all the 19 levels of difficulty.

Failing this you can go back to the beginning of the game where a friendly pilot gives you some hints on strategy.

Stolen Lamp is Lothlorien's only adventure out of the new batch of releases.

A text/graphic game for the BBC it joins the spirit of Tales of the Arabian Nights.

The hero or heroine must retrieve a magic lamp.

The main mode of transport is a magic carpet and you meet an assortment of people including an enchanteress.



Twin Kingdom cassette features 175 locations

FULL-SCREEN pictures for 175 locations is one of the features of Twin Kingdom Valley from Bug-Byte Software.

In their new adventure, based on a dragons and dungeons theme, you must beware of tricks, wandering monsters, dwindling strength and search for keys that might help you open closed doors in order to complete the quest.

A valley king asks the

player, under the guise of a wandering adventurer, to retrieve a treasure chest from a rival kingdom.

In his travels the adventurer meets various nasties including the castle guards, sand lurkers, trolls, a dragon and a witch. There is also a giant to fight and some mischievous elves who might be persuaded to provide you with weapons in return for certain favours.

A spokesman for Bug-Byte Software said some of the characters had minds of their own. Elves and guards would clash but could become valuable friends for the player.

And like Valhalla, the game plays by itself when the adventurers are slow issuing commands.

Novice masters program writing

SUE GAZZARD went from adventure novice to master when, within three months of buying her BBC, she began writing games for Level 9 Computing.

She began playing adventures in April last year when the BBC was bought. She enjoyed playing Level 9 games and whenever she got stumped would write to the company for clues.

"I've been known to stay up till two o'clock in the morning," Sue said. "I found

adventures fired my imagination."

In August last year, after becoming known at Level 9 as an avid adventurer, Sue was asked to write a program for the company. Then a second, then a third.

She tried to use life-like situations in her games. "I use the library for research. So (in Lords of Time) a Roman village is based on a map of a real village and a Tudor house is a copy of a real house," Sue said.

Her first game, Lords of Time, was released at the *Your Computer Christmas Fair* in December. The sequel will be launched before Easter. And two months ago her third game was in the making.

Twig offers £10,000 in prizes

TWIG SYSTEMS Software in association with disc jockey and television personality Dave Lee Travis have organised a nation-wide competition with prize money totalling £10,000.

The competition, Monster Challenge, will accompany the launching of a new range of "mind-bending" software from Twig, who tag the programs a new generation of computer games.

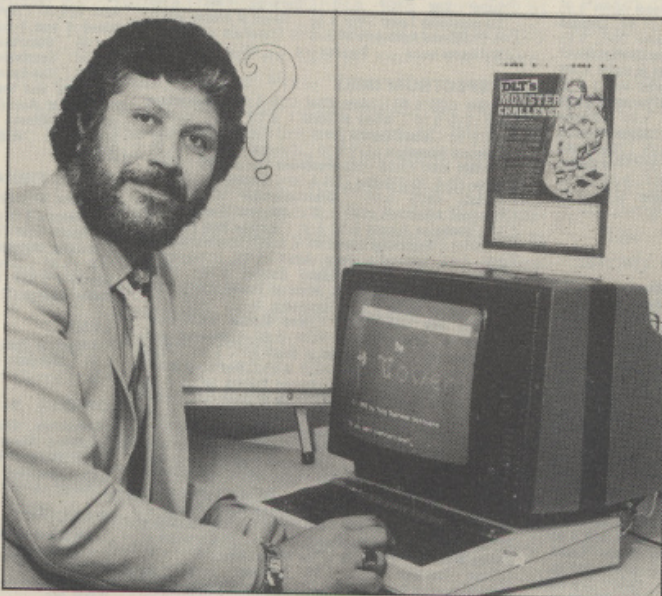
Twig say that the collection of six games are oriented towards the intellect, reasoning powers and keyboard dexterity.

Dave Lee Travis, a computer and video buff of long standing, says that the games will have people beating their heads on the floor in frustration.

"I've been messing about with computer puzzles for years and I like to think I'm pretty good", he said, "so I speak as something of an authority when I say that these new games will take a lot of solving."

Whoever wanted to win the £10,000 Monster Challenge prize should be prepared to earn it.

The collection comprises Air Sea Missile, which will appeal to the video champs; Cambridge, involving a trip round the city directed by a series of clues which may appeal to those with university degrees; Take the Strain, which requires the player to learn how correctly to disembark from a train before he even proceeds to the final



Dave Lee Travis plays a Twig Systems game

conclusion; Othello, the well-known board game; The Tower, a gruelling visit to that well-known penal institution; and Countdown Quiz for those who aspire to the ultimate challenge — and the £10,000.

Twig computer games are currently compatible with BBC, Dragon and Sinclair micros and the scope is being broadened to encompass other currently popular systems.

The games are available on mail order from Twig's headquarters at 6 High Street, Wendover, Bucks.

Full instructions for participating in DLT's Monster Challenge are included with each of the games. Each purchaser becomes a registered competitor.

The ultimate Countdown Quiz is to be held in London when 10 competitors have solved the build-up games of the series and it is proposed to televise the final. The games may be attempted in any order of preference.

Dave Lee Travis said: "We know the games are difficult — we just don't know quite how difficult. So we don't know how long it will take individuals to solve them or how long it will take us to get 10 finalists together."

"But the prize isn't static — the longer it takes for 10 winners to emerge the bigger the cash prize will become. And if our plans for the final pan out, that will be real Monster fun all on its own."

Computer mail game starts on Prestel

THE FIRST computer-moderated game to be played on Prestel will begin this month.

It is Starnet from Mike Singleton, the writer of the first British play-by-mail game, Starlord.

Playing on Prestel means that micro owners need wait only minutes for replies rather than weeks.

Starnet has been written on massive proportions with the three-dimensional map taking up 343 Prestel pages.

According to Mike it is similar in aim to Starlord, with the task being to capture a throne ship.

"As in Starlord there are different types of stars with different properties, but Starnet has been adjusted to fit in with the new system," Mike said.

The main difference between the programs would be in the map of the galaxy. In Starlord it was a standard disc shape with a definite centre, while the map in Starnet was a three-dimensional cube. □

Adventure, strategy and war games galore! We offer an unrivalled selection for many makes of home computer and a full range of other software for home and business users alike. You name it . . . we can provide it!

ATARI

Adventure Quest LEV9 9.50 Adventureland ADIN d29.00 14.50 Blade of Blackpool SRSS d27.50 Castle Wolfenstein MUSE d21.50 Colossal Adventure LEV9 9.50 Conflict MART 14.75 Cranston Manor SOL d14.50 Crush Crumble Chomp EPYX d21.50 Curse of Ra EPYX 13.50 Dark Crystal SOL d27.50 Deadline INFO d34.50 Dungeon Adventure LEV9 9.50 Empire of the Overmind AHGC d25.00 22.00 Enchanter INFO d37.95 Galaxy Conflict MART 14.75 Gateway to Apsal EPYX r26.00 Ghost Town ADIN d29.00 14.50 Golden Voyage ADIN d29.00 14.50 Gruds in Space SRSS d27.50 Infidel INFO d37.50 Lords of Darna AHGC 14.50 Mission Impossible ADIN d29.00 14.50 Mission Asteroid SOL d14.50 Mystery Fun House ADIN d29.00 14.50 O'Riley's Mine DSFT d21.50 21.50 Pirate's Adventure ADIN d29.00 14.50 Pyramid of Doom ADIN d29.00 14.50 Roman Empire MCLO 12.50 Savage Island 1, 2 ADIN d29.00 14.50 Snooper Troops: Case1 SPNK d28.00 Snooper Troops: Case2 SPNK d28.00 Snowball LEV9 9.50 Spy Strikes Back PENG d14.30 Spy's Demise PENG 15.95 Starcross INFO d29.00 Strange Odyssey ADIN d29.00 14.50 Suspended INFO d35.00 Temple of Apsal EPYX d29.00 The Adventure of Prote EDUC d17.95 17.95 The Count ADIN d29.00 14.50 Upper Reaches of Apsal APYX d13.50 13.50 Voodoo Castle ADIN d29.00 14.50 Witness INFO d35.00 Wizard of War ROCK r29.95 Zork I, II, III INFO d29.00

BBC

Adventure Quest LEV9 9.50 Arrow of Death I, II CB 9.95 Battlezone 2000 MCLO 6.95 Castle of Riddles ACRN 9.95 Circus DGT 9.95 Colossal Adventure LEV9 9.50 Conflict MART 14.75 Countdown to Doom ACRN 9.95 Dictator DKTR 6.95 Dragonquest BYTE 11.50 Dragon Adventure LEV9 9.50 Escape from Pulsar? DGT 9.95 Feasibility Experiment DGT 9.95 Galaxy Conflict MART 14.75 Johnny Reb MCLO 6.95 Kingdom of Hamil ACRN 9.95 Old Father Time BYTE 9.50 Paras MCLO 6.95 Perseus and Andromeda DGT 9.95 Pharaoh's Tomb A&FS 7.99 Philosopher's Quest ACRN 9.95 Roman Empire MCLO 6.95 Snowball LEV9 9.50 Space Kingdom SFA 7.95 Sphinx Adventure ACRN 9.95 Ten Little Indians DGT 9.95 The Hobbit MELH 14.50 The Golden Baton DGT 9.95 The Time Machine DGT 9.95 The Wizard Akryz DGT 9.95 Time Traveller SULI 7.95 Tower of Altos A&FS 6.90

COMMODORE 64

Adventure Quest LEV9 9.50 Alice in Wonderland ADGC d27.50 Arrow of Death 1, 11 CB 9.95 Aztec Tomb AGTA 7.75 Blade of Blackpool SRSS d27.50 Circus CB 9.95 Colossal Adventure LEV9 9.50 Conflict MART 14.75 Cosmic Capers SSFT d10.00 7.50 Crush Crumble Chomp EPYX d21.50 Curse of Ra EPYX 13.50 Deadline INFO d34.50 Dungeon Adventure LEV9 9.50 Enchanter INFO d37.95 Escape from Pulsar? CB 9.95 Feasibility Exit CB 9.95 Fool's Gold ROMK 6.75 Forbidden Forest COSM 11.95 Galaxy Conflict MART 14.75 Gateway to Apsal EPYX r26.00 Goblin Towers DDGY d10.50 9.00 Golden Baton CB 9.95 Gruds in Space SRSS d27.50 High Flyer CBMS d14.95 In Search of the Most Amazing Thing SPNK d21.50 Infidel INFO d37.50 Knights of the Desert STSI d29.00 29.00 Midway Campaign AHGC 11.50 O'Riley's Mine DSFT d21.50 21.50 Perseus & Andromeda CB 9.95 Planetfall INFO d35.00 Ring of Power QUIK 9.95 Ship of the Line SHEP 6.50 Snooper Troops: Case1 SPNK d28.00 Snooper Troops: Case2 SPNK d28.00 Snowball LEV9 9.50 Starcross INFO d29.00 Suspended INFO d35.00 Sword of Fargal EPYX d20.50 20.50 Telengard AHGC 16.50 Temple of Apsal EPYX r20.50 20.50 Ten Little Indians CB 9.95 The Cracks of Fire SSFT d10.00 7.50 The Hobbit MELH 14.50 The Island SPRB 9.75 The Streets of London SSFT d10.50 9.00 Time Machine CB 9.95 Token of Ghall INTM 6.75 Tombs of Xelops ROMK 6.75 Upper Reaches of Apsal EPYX d13.50 13.50 Witness INFO d35.00 Wizard of Akryz CB 9.95 Zork I, II, III INFO d29.00

VIC 20

(minimum expansion required: * 3K ** 8K *** 16K or E)
Adventureland CBM d9.99 Animal Magic (***) ROMK 5.99 Curse of the Werewolf (E) TERM 9.95 Dark Dungeons (***) ANRG 5.95 Dracula + Last in the Dark ANRG 5.95 Into the Labyrinth ABCS 5.95 Magic Mirror (E) TERM 9.95 Mission Impossible CBM 9.99 Nosferatu (***) TERM 9.95 Pharaoh's Tomb (***) ANRG 5.95 Pirate Cove CBM 9.99 Rescue from the Castle Dread (E) TERM 9.95 Strategic Advance (E) CBM 9.99 Sword of Hrakel (*) ROMK 5.99 The Count CBM 9.99 The Dungeons (***) ANRG 5.95 The Golden Apples (***) ROMK 4.99 The Wizard and Princess MELH 5.95 Tomb of Drowan (E) ADGC 12.95 Trader QUIK 14.95 Voodoo Castle CBM 9.99 Zak's Kingdom (***) ANRG 5.95 Zorgon's Kingdom (**) ROMK 6.99

DRAGON

Alien Odyssey BMBY 9.95 Black Sanctum DD 7.95 Calisto Island DD 7.95 Castle Adventure VIRG 6.95 Conflict MART 14.75 Deadwood A&FS 6.90 Deadwood A&FS 6.90 Dragon Mountain DD 7.95 El Diablo DD 7.95 Escape MIDL 8.00 Final Countdown DD 7.95 Galaxy Conflict MART 14.75 Golden Apples BMBY 5.95 Into the Labyrinth ABCS 5.99 Jerusalem Adventure MIDL 8.00 Keys of Roth CORE 6.95 Keys of the Wizard MIDL 8.00 Madness and the Minotaur DD 7.95 Mansion DD 7.95 Mansion Adventure1 MIDL 8.00 Peloponnesian War MCLO 6.95 Pettigrews Diary (3-part) SHRD 7.95 Phantom Slayer MIDL 8.00 Pirate ABCO 8.50 Planetary Trader BMBY 5.95 Posidon Adventure DD 7.95 Quest DD 7.95 Roman Empire MCLO 6.95 Samurai Warrior MCLO 6.95 Scanner 13 BMBY 8.45 Space Monopoly MIDL 8.00 Stalag/End DD 7.95 Super Spy SHEP 6.50 Surprise BMBY 8.95 Transylvanian Tower SHEP 6.50 Tyrant of Athens MCLO 6.95 Ultimate Adventure MIDL 8.00 Warlord MCLO 6.95 Williamsburg Boulevard MIDL 8.00

ZX SPECTRUM (48K)

Airline CCS 6.00 Auto Chef CCS 6.00 Adventure Quest LEV9 9.50 Arrow of Death I, II CB 9.95 Badlam MCLO 5.95 Black Crystal CARN 7.50 Circus DGT 9.95 Colossal Adventure LEV9 9.50 Colossal Caves CPS 6.95 Conflict Mart 11.95 Confrontation MCLO 7.95 Corn Crepper CC 6.00 Dallas CCS 6.00 Dictator DKTR 5.95 Domain ABCS 4.95 Dreadnaught MCLO 5.95 Dungeon Adventure LEV9 9.50 Dungeon Master CRYX 7.50 Embassy Assault SINC 4.95 Escape from Pulsar 7 DGT 9.95 Espionage Island ARTC 6.95 Everest Ascent SHEP 6.50 Faust's Folly ABX 5.95 Feasibility Experiment DGT 9.95 Galaxy Conflict MART 11.95 Golden Apple ARTC 6.95 Halls of Things CRYX 7.50 Inca Curse ARTC 6.95 Inevitable Island SHEP 6.50 Johnny Reb MCLO 5.50 Mad Martha MIGN 5.50 Mines of Saturn/Return MIGN 5.50 Perseus and Andromeda DGT 9.95 Planet of Death ARTC 6.95 Print Shop CCS 6.00 Privateer MCLO 4.50 Redwood MCLO 5.50 Rescue CORE 5.95 Roman Empire MCLO 5.50 Ship of the Line SHEP 6.50 Ship of Doom ARTC 6.95 Snowball LEV9 9.50 Sorcerer's Castle MIGN 5.50 Space Island TERM 5.95 Stargazer's Secrets CORE 5.95 Super Spy SHEP 6.50 Ten Little Indians DGT 9.95 The Castle BYTE 6.95 The Crypt CARN 4.95 The Golden Baton DGT 9.95 The Hobbit MELH 14.50 The Incredible Adventure CORE 5.95 The Korh Trilogy 1: Escape from Arkaron PENG 4.95 The Korh Trilogy 2: Besieged PENG 4.95 The Korh Trilogy 3: Into the Empire PENG 4.95 The Time Machine DGT 9.95 The Warlock of Firetop Mountain PENG 6.95 The Wizard Akryz DGT 9.95 Time Traveller SULI 7.95 Trader QUIK 9.95 Transylvanian Tower SHEP 6.50 Tyrant of Athens MCLO 5.50 Valhalla LGND 14.95 Vampire Village TERM 6.95 Volcanic Dungeon CARN 5.00 Warlord MCLO 5.50 Woods of Winter CORE 5.95 Wrath of Magra CARN 12.50

ZX81

Adventure BYTE 5.95 Black Crystal CARN 7.50 Conflict MART 11.95 Damsel and the Beast BYTE 6.50

Dictator BYTE 9.00 Espionage Island ARTC 5.95 Galaxy Conflict MART 11.95 Inca Curse ARTC 5.95 Marchant of Venus CRYX 5.50 Ocean Trader QUIK 3.95 Peloponnesian War MCLO 4.50 Pioneer Trail QUIK 3.95 Planet of Death ARTC 5.95 Privateer MCLO 4.50 Roman Empire MCLO 4.50 Samurai Warrior MCLO 4.50 Ship of Doom ARTC 5.95 The Island CRYX 7.50 Trader QUIK 9.95 Tyrant of Athens MCLO 4.50 Volcanic Dungeon CARN 5.00 Warlord MCLO 4.50 Wumpus Adventure CARN 5.00

IBM PC

(may require graphics board)

Curse of Ra EPYX 13.50 Crush Crumble Chop EPYX d21.50 Dark Crystal SOL d27.50 Deadline INFO d34.50 Enchanter INFO d37.95 Infidel INFO d37.50 Midway Campaign AHGC 15.00 Snooper Troops: Case1 SPNK d28.00 Snooper Troops: Case2 SPNK d28.00 Starcross INFO d29.00 Temple of Apsal EPYX d29.00 Ulysses and the Golden Fleece SOL d25.50 Upper Reaches of Apsal EPYX d13.50 Witness INFO d35.00 Zork I, II, III INFO d29.00

APPLE II

Adventureland ADIN d29.00 Blade of Blackpool SRSS d27.50 Castle Wolfenstein MUSE d21.50 Cranston Manor SOL d21.50 Crush Crumble Chop EPYX d21.50 Deadline INFO d34.50 Empire of the Overmind AHGC d25.00 22.00 Enchanter INFO d37.95 Ghost Town ADIN d29.00 Golden Voyage ADIN d29.00 Gruds in Space SRSS d27.50 Infidel INFO d37.50 Knight of Diamonds SIRT d25.00 Legacy of Lyligamon SIRT d29.00 Lords of Karma AHGC 14.50 Mission Impossible ADIN d29.00 Mission Asteroid SOL d14.50 Mystery Fun House ADIN d29.00 Mystery House SOL d14.50 Pirate's Adventure ADIN d29.00 Pyramid of Doom ADIN d29.00 Savage Island 1 and 2 ADIN d29.00 Spy Strikes Back PENG d14.30 Starcross INFO d29.00 Strange Odyssey ADIN d29.00 Suspended INFO d35.00 Temple of Apsal EPYX d29.00 The Count ADIN d29.00 Time Zone SOL d24.00 Ulysses and the Golden Fleece SOL d24.00 Upper Reaches of Apsal EPYX d13.50 Voodoo Castle ADIN d29.00 Witness INFO d35.00 Wizard and the Princess SOL d21.50 Wizardry SIRT d36.00 Zork I, II, III INFO d29.00

TEXAS TI99/4a

(* require Adventure & Pirate ROM)

Adventure & Pirate TEX r24.95 Adventureland Tex 14.95 Chisolm Trail TEX r19.95 Ghost Town (*) TEX 14.95 Mission Impossible (*) TEX 14.95 Pyramid of Doom (*) TEX 14.95 Savage Island 1, 2 TEX 14.95 Strange Odyssey (*) TEX 14.95 The Count (*) TEX 14.95 The Golden Voyage (*) TEX 14.95 Tombstone City TEX r14.95

LYNX

Adventure Quest LEV9 9.50 Colossal Adventure LEV9 9.50 Dungeon Adventure LEV9 9.50 Snowball LEV9 9.50

ORIC

Adventure Quest LEV9 9.50 Castle BYTE 6.95 Colossal Adventure LEV9 9.50 Death Satellite A&FS 6.90 Dungeon Adventure LEV9 9.50 Johnny Reb MCLO 6.95 Snowball LEV9 9.50 The Hobbit MELH 14.50 Zodiac A&FS 6.90

NASCOM

Adventure Quest LEV9 9.50 Colossal Adventure LEV9 9.50 Dungeon Adventure LEV9 9.50 Snowball LEV9 9.50

TRS-80

(* Model 1, ** Model 2, *** Model 3)

Deadline (* and **) INFO d34.50 Empire of the Overmind AHGC d25.00 22.00 Knights of the Desert STSI d29.00 29.00 Lords of Karma AHGC 14.50 Midway Campaign AHGC 11.50 Planetfall (***) INFO d35.00 Starcross (* and **) INFO d29.00 Witness INFO d35.00

The software list shows, in order, the product name, producer and price (prefixed to indicate: r cartridge, d disk and no prefix for cassette). Producers are abbreviated to identify like-named products for price checking and ordering. Please make cheques/PO's payable to The DGH Software Centre. Postage and packing free! Remember to specify choice of cassette, disk or cartridge where choice available. Telephone hot-line for credit card orders only: 0227 266289

software centre

10 North Street, Ashford, Kent.

A division of T Denne & Sons Ltd

Imagination's the only limit

*Gilsoft has developed a program that turns novices
into adventure designers — Tony Bridge reports*

IN THE PAST few weeks a couple of programs have appeared (Hurg from Melbourne House and Games Designer from Quicksilver) which will allow the budding arcade game designer to create his own Zaxxon.

From Gilsoft comes the adventurer's equivalent, The Quill. It is an adventure system for the 48K Spectrum. Written by G Y The Quill is an interpreter program to compile your own adventures.

The tape is accompanied by a 52-page manual which explains things in great detail, and rewards a close reading.

A sample

On LOADing, an 18-point menu is presented, then you open the manual. After a page of introduction: what is adventure? and a page of 'getting started', or how to LOAD the program, the user is given a quick tour of the menu.

Pressing O, for instance, informs us how many bytes are to spare. At the start there is some data in the program, so we have 30,553 bytes free.

A sample mini-adventure is then presented which eases us gently into the creation process. A six-location map is shown, with the objects present, and the routes between the locations. Following the example adventure will give you practice in using The Quill.

To write your own adventure you must first of all map out the locations and decide what objects you will initially leave lying around. Then work out how the player can move from one location to the other. In the manual's example map the player will start in the hall where there is a hat and a coat.

From here the player may proceed west into the bedroom, east to the kitchen, south to the lounge or down to the dark cellar and the dining room. The sixth location may be reached from the lounge and the kitchen.

Now to set it all up: Pressing C, at the main menu gives us our location text menu, from which we may choose to (I)nsert a text, (A)mend a text, or PRINT (to the screen) or LPRINT (to the printer) a text.

Start by printing a text to the screen and you'll see all the locations so far defined, along with their descriptions as written by you. In the database included in The Quill, is the first location, O. The description demonstrates all the modes that may be used in your own descriptions, such as

BRIGHT, FLASH, INVERSE and so on. If you wish, and to get a bit of practice, you may CLEAR the description of this location by pressing CAPS SHIFT AND 'I' together. The text may then be amended to your heart's content, and of course changed completely.

Descriptions of other locations may be inserted in the database, and amended as necessary. Once all this is satisfactorily accomplished we can go on to the movements routine. Press 'D' on the main menu and another sub-menu, much like that for the location routine is presented. (P)rinting the movement table at this point shows us that, in fact, there are no movements recorded at present. Back to the mini-menu, and then press (A)mend. There is (I)nsert here; creating a location automatically inserts a null entry for that location in the movement table, so the user can only amend it.

From location O, the hall, we have decided that we want the adventurer to go east to one. The kitchen down to five, the cellar and so on. Note that locations must be created before attempting to make movement links between them. Once the movement table has been completed, the table may be printed or LPRINTed for inspection.

Dining room

Now the adventure may be tested to ensure that it works, insofar as it exists. Select (L) from the main menu and the program will ask if you require diagnostics. Forget this for the moment. This option will only be required later when a lot more data is present.

On refusing this option you'll see the first location appear on-screen and the statement: Tell me what to do. There's nothing clever you can instruct the computer to do at this stage (after all, you've typed in nothing more than the basics) so type S, or south, and you'll find yourself in the lounge. This is as it should be. Type W or west and the reply will be, "I can't go in that direction". Type E and you'll arrive at the dining room.

Assuming that you've typed everything in correctly you will be moving around the locations in the way you want. Anything else will elicit the reply "I don't understand". (R), however, will redescribe the location and (I) will give you an inventory

of objects carried (nothing so far!). Note that, as the program is written in machine code, the responses are just about instantaneous.

To make the adventure more interesting scatter a few objects around. The above procedure is followed here: select (E) from the main menu and a mini-menu is presented from which you may decide to (P)rint, or (L)PRINT the list of objects so far present in the adventure. (I)nsert or (A)mend the object text. (P)rinting will show that the database already contains "a source of light", which will be found at location O.

Insert the rest of the objects using the map in the manual as a guide. You'll find, for instance, a torch, the source of light, a sharp knife and an apple. Some may be carried, while others are not created, that is, not immediately visible until a certain condition is met, such as opening the safe.

30 words

Careful working out is needed in order to cover all possibilities but the manual makes things very clear. For instance, the act of opening the safe creates the jewel and destroys the closed safe.

If the player then takes the jewel, the jewel ceases to exist as an object and becomes a carried object, which is treated differently. And so it goes on. Each and every object and location must be thoroughly initialised through the menu.

The vocabulary menu for The Quill already contains more than 30 words, such as up, down, east, north, take and wear. These should be sufficient for much of your adventure.

The vocabulary also allows you to inspect the synonyms of all these words. Ascend will also yield U, up, clim(b), as well as asce(nd). North is recognised by N and nort(h) for as long as you want.

Asking for (G) in the main menu will put us in the event menu. From here we may see all the actions that the program will take to respond to the player's input. The word values input by the player will be matched against each entry in the event table and the appropriate action taken. I, or INVENT (for inventory), is answered by "I have with me: ...".

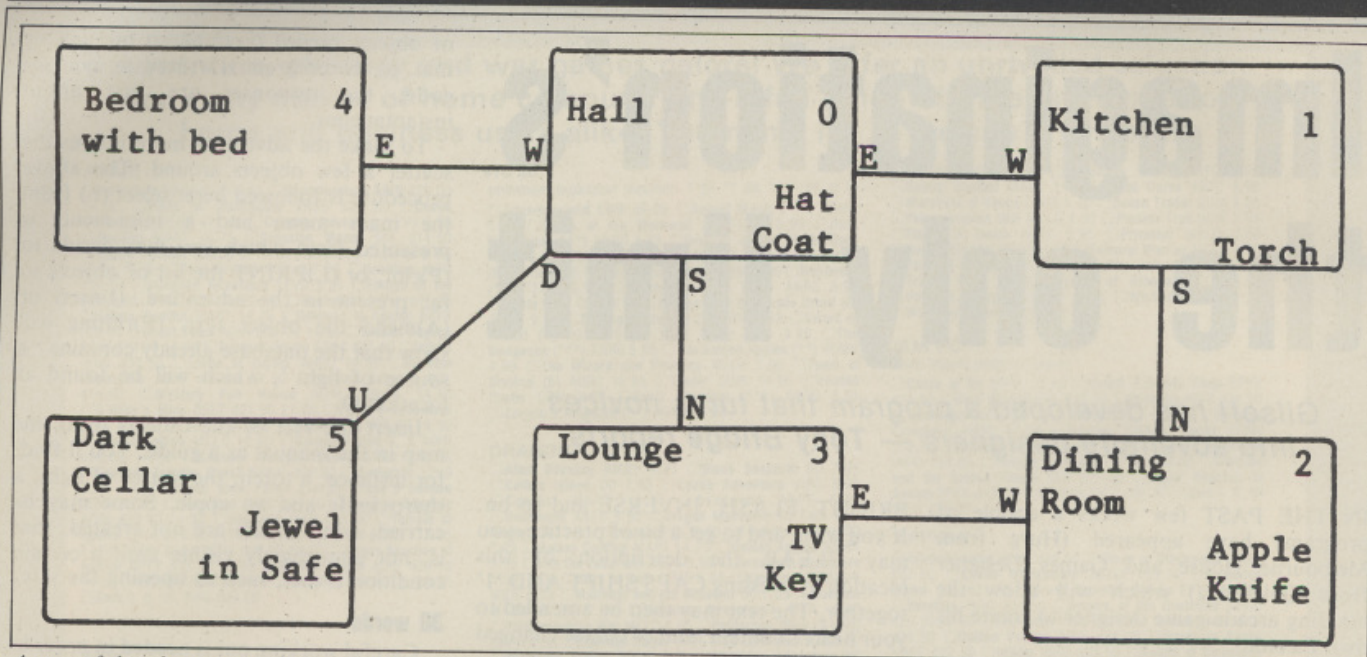
And so the adventure is constructed building it up from our initial framework and adding and amending as necessary. To start with, we'll be working on the mini-adventure presented in the manual, which is good practice for writing our own.

Detailed look

The 29 pages of the manual are taken up with the set-up of the adventure. It includes all the actions such as quit, save (present game), load (previous game), and so on. All these words may be specified to your own taste. The remainder of the bulky manual contains a more detailed look at the adventure editor.

After entering the data as indicated you'll have written a full-blown machine-code adventure. In summary all you have to do is draw out the map of your adventure. Decide what text will describe





A map of the adventure in which the objective is to find the jewel and place it in the dining room

◁ each location, what objects you want around, the exits from the location and if light is needed. Write in your own vocabulary and decide what conditions have to be met at each point.

A person without any programming experience can construct an adventure. Imagination is the only limiting factor. The Quill rates 10 out of 10 and will be an indispensable aid to any adventure writer.

The final good facet of The Quill is that

Gilsoft asks to be mentioned somewhere in the finished adventure, which seems a small price to pay. Gilsoft seems to have no objection to the commercial sale of adventures constructed with The Quill.

I foresee many highly imaginative adventures coming onto the market in the future, from the quills of people who otherwise would not even contemplate the idea. At £14.95 the price seems rather high but it is worth every penny. The adventures

created with the aid of the system, I think will be passed around the adventuring community at a very low cost.

To illustrate what can be done Gilsoft provides a copy of its own adventure, Diamond Trail, based on The Quill system. It takes the form of a traditional text adventure but I would expect somebody to create a more unusual scenario as they become familiar with the system. Imagination is the only limit. □



The best books for the Micro Adventurer

spectrum
adventures
a guide to playing and writing adventures
tony bridge & roy carnell



Spectrum Adventures

A major work by Tony Bridge and Roy Carnell which details the growth and development of Adventure gaming and then presents a full graphic Adventure game called 'The Eye of the Star Warrior' ISBN: 0 946408 07 6

Commodore 64 Adventures

A blueprint for the construction and playing of Adventure programs based on a full text Adventure. ISBN: 0 946408 11 4



PUBLISHED JANUARY 1984
* **Atari Adventures**
A guide to playing and writing your own
adventures by Tony Bridge & Roy Carnell

Look out for the Sunshine range in W.H. Smith's, Boots, John Menzies, other leading retail chains and through our national network of bookshops and specialist stores.

Dealer enquiries: 01-734 3454

Please send me

☐ Spectrum Adventures
at £5.95 each

☐ Commodore 64 Adventures
at £5.95 each

I enclose cheque/postal order for £_____ made
payable to: Sunshine Books: 12/13 Little Newport St.,
London WC2R 3LD

Name _____

Address _____

Signature _____

We can normally deliver in 4/5 days.

Map and explore fantasy land

In simple terms Lyman Alpha shows amateur adventure writers how to draw a map of their fantasy land

THE very first thing you have to do when writing an adventure game is to draw a map of your fantasy land.

A simple explanation of how to program an adventure map using PEEK, POKE, and BIT manipulation follows. Don't be alarmed, they are dead easy. But to start off with, a story about Startrek.

In the old days of mainframe computing, just a few years ago, the only decent game you could play was Startrek. It was often written rather inefficiently, mainly because most computers have quite a large amount of memory.

The familiar scenario, "You are in a galaxy divided into a 8 by 8 quadrant which is sub-divided INTO an 8 by 8 sector" means that you will need a dimensional array of 8 by 8 by 8 by 8 which is DIM A(7,7,7,7) since the BBC basic's DIM statement gives you a 0th element instead of starting from 1.

This is a very large array and occupies 20K since each array of the element needs 5 bytes, and will leave you with 8K to program the main Startrek game. A ludicrously small amount. What can we do? Well, we could use an integer array; DIM A%(7,7,7,7) which will take up 16K, still quite a hefty amount.

How about a byte array;

DIM A% 4096 (8 x 8 x 8 x 8 = 4096)

The above byte array reserves 4096 memory spaces for all the locations in the galaxy. You can POKE 255 (which represent TRUE) in the memory location where the stars are and use PEEK to test if there is any star. You will need a function to work out the memory location as below. DEF FNA(QX,QY,SX,SY)= 512 x QX + 64 x QY + SX x 8 + SY To poke: A%(FNA(1,2,3,4))=255 To peek: X=A%(FNA(1,2,3,4))

This method is quite memory efficient. It only uses 4K bytes which will leave you with plenty of memory to play around with. But you can do one better than a byte array. Bit map the galaxy! Okay, what is a BIT you might ask. Well each memory location, i.e. each BYTE is made up 8 Binary digits (8 BITS). A combination of 8 binary numbers (0 or 1) gives a number between 0 to 255 which is the range of numbers one byte can have.

Because the binary number system is a system using only 0 and 1 it can be taken as meaning 1=TRUE and 0=FALSE. Now since all you need to know for a particular location is whether there is a star there or not you can say that a location with a star is 1 and where there isn't 0.

Since 8 bits are in a byte you will

```
10REM *****
30REM MAP LOADER
40REM
50REM BY L.ALPHA
60REM
70REM THIS IS AN EXAMPLE PROGRAM WHICH YOU'LL HAVE
80REM TO MODIFY TO SUIT YOUR ADVENTURE.
90REM INPUT HIMEM=&6400 BEFORE YOU START
100REM LOADS THE MAP FROM &6400
110REM (HIMEM CAN BE CHANGED IF YOU WANT)
120REM
130REM *****
140
150
160REM THIS ROUTINE IS FOR A 2D MAP
170REM IF YOU ARE USING A 3D MAP
180REM YOU DON'T NEED LINES
190REM 10 TO 370
200
210
220A=5:REM CHANGE THIS VALUE TO THE LENGTH OF YOUR X DIRECTION
230B=5:REM CHANGE THIS VALUE TO THE LENGTH OF YOUR Y DIRECTION
240
250
260FOR Y=1 TO B
270FOR X=1 TO A
280READ N$,S$,E$,W$
290CODE=-(1*(N$="N")+2*(S$="S")+4*(E$="E")+8*(W$="W"))
300*((Y-1)*A+X-1+&6400)=CODE
310NEXT X
320NEXT Y
330PRINT"LOADED"
340END
350
360
370REM *****
380
390
400REM THIS ROUTINE IS FOR A 3D MAP
410REM IF YOU ARE USING A 2D MAP
420REM YOU DON'T NEED LINES
430REM 370 TO 630
440
450
460A=5:REM CHANGE THIS VALUE TO THE LENGTH OF YOUR X DIRECTION
470B=5:REM CHANGE THIS VALUE TO THE LENGTH OF YOUR Y DIRECTION
480C=5:REM CHANGE THIS VALUE TO THE LENGTH OF YOUR Z DIRECTION
490
500
510FOR Z=1 TO C
520FOR Y=1 TO B
530FOR X=1 TO A
540READ N$,S$,E$,W$,U$,D$
550CODE=-(1*(N$="N")+2*(S$="S")+4*(E$="E")+8*(W$="W")+16*(U$="U")+32*(D$="D"))
560*((Z-1)*A*B+(Y-1)*A+X-1+&6400)=CODE
```

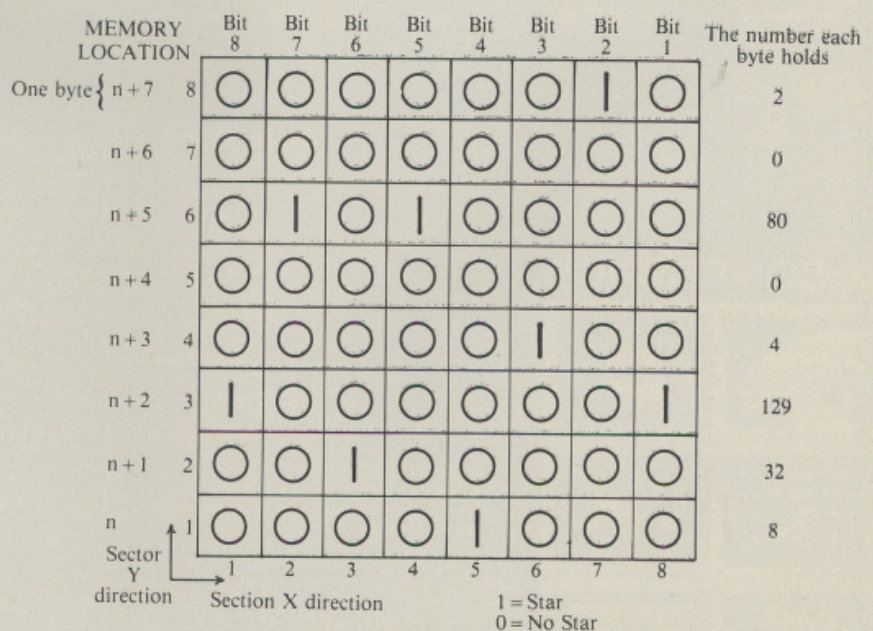
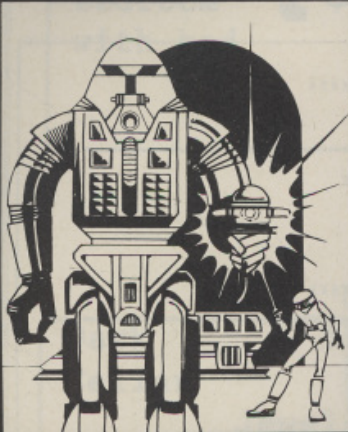


Diagram 1 — a quadrant of the Startrek galaxy using the Bit map technique

A NEW WORLD OF ADVENTURE

STARFORCE ONE



An amazing 3D all action arcade style game.



STARFORCE ONE

Take on the robot guardians of the central computer in a superbly stylised three dimensional battle game.
(100% machine code arcade action)

Available now for the 48K Spectrum at £5.95

THE ADVENTURES OF ST. BERNARD ...
An exciting, fast moving, machine code, arcade game where you guide your intrepid St. Bernard through the perils of the icy wastelands to rescue his Mistress from the clutches of the abominable snowman.

Available now for the 48K Spectrum at £5.95

ADVENTURES OF ST. BERNARD



An all action arcade style game.



THE CRYPT



A colourful arcade style fantasy adventure.



THE DEVIL RIDES IN

I uttered the last incantations as the clock struck thirteen. All fell silent except for a faint rustling in the corner. From out of the shadows they came, all Hell's fury against me but I was not defenseless until the Angel of Death, astride a winged horse, joined the battle. Avoiding his bolts of hell fire, I took careful aim. My chances were slim, but if my luck held ...

(Fast moving, machine code, all action, Arcade game)

Available now for the 48K Spectrum at £5.95

DEVIL RIDES IN



An all action arcade style game.



THE CRYPT ... written by Stephen Renton

Prepare yourself for the many challenges that shall confront you when you dare to enter **THE CRYPT**. You will battle with giant scorpions, Hell spawn, Craners, Pos-Negs and if you are unlucky enough — the Dark Cyclops in this arcade style adventure.
Available now for the 48K Spectrum at £4.95

BLACK CRYSTAL The Classic, six program adventure game for the 48K Spectrum and 16K ZX81 computers. No software collection is complete without it.

"**BLACK CRYSTAL** is an excellent graphics adventure and a well thought out package". (*Sinclair User*, April 83)
"BLACK CRYSTAL has impressed me by its sheer quantity and generally high quality of presentation. I am afraid I have become an addict". (*Home Computing Weekly*, April 83).

Spectrum 48K 180K of program in six parts ... only £7.50

ZX81 16K Over 100K of program in seven parts ... only £7.50

WHY PAY MORE FOR LESS OF AN ADVENTURE?

ZX COMPENDIUM



Six exciting programs for the ZX81 16K

ZX81 COMPENDIUM

Alien Intruder, Wumpus Adventure, Numerology, Hangman, Hieroglyphics, Movie Mogul.

The ideal software package for all 16K ZX81 owners. Six major programmes on two cassettes for only £6.50.

"Alien Intruder/Hieroglyphics — Both programs make good use of graphics and words to make a very entertaining package." — *Sinclair User* Aug 82

"Alien/Hieroglyphics/Wumpus/Movie — A varied mix from Carnell, all featuring imaginative responses and graphics and all of them good games for all ages. (Hieroglyphics is particularly good for children)." (*Popular Computing Weekly*)

BLACK CRYSTAL



An epic role-playing adventure of fantasy in six programs.





AVAILABLE MID-JANUARY

"THE WRATH OF MAGRA"

The first born has been destroyed. The Black Crystal of Beroth has been banished. The alliance of Evil has been defeated by the armies of Lord Fendal. So ends the Third Age. Now we invite you to write your name in the history of the Fourth Age of the Third Continent.

You will meet friends and enemies, old and new, in the long awaited sequel to Volcanic Dungeon. Using high resolution graphics and combining the best qualities of "Black Crystal" and "Volcanic Dungeon", we will allow you to become part of this tale of revenge.

"The Wrath of Magra" comes as three, 48K programs on cassette, boxed with instruction manual and book detailing the history of the Third Continent and the many spells you will be using throughout the game.

NOTE: "The Wrath of Magra" is a complete adventure. You need not buy "Volcanic Dungeon" or "Black Crystal" to play it.

CARNELL SOFTWARE
North Weylands Industrial Estate,
Molesy Road, Hersham, Surrey
KT12 3PL



CARNELL SOFTWARE LTD

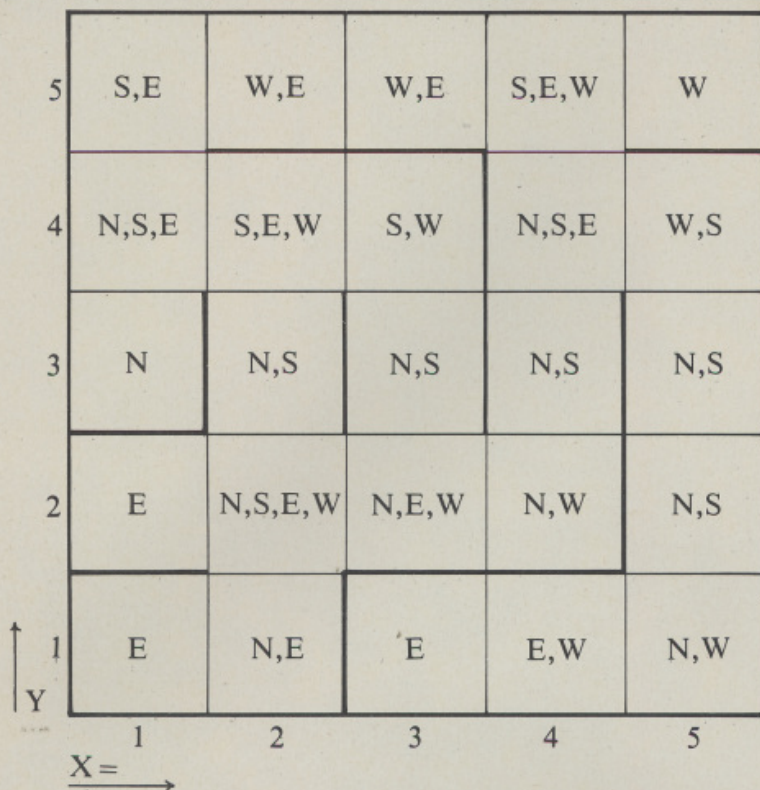


Diagram 2 in which north is upwards is an example map 5 by 5

```

570NEXT X
580NEXT Y
590NEXT Z
600PRINT "LOADED"
610END
620
630
640REM *****
650REM
660REM JUST STORE THE COMPASS SIGN OF THE DIRECTION
670REM YOU CAN GO. i.e. N,S,E,W,U,D
680REM U MEANS UP AND D MEANS DOWN
690REM THE DIRECTIONS WHICH YOU CAN'T
700REM GO ARE DENOTED BY 0 (ZERO)
710REM IF YOU ARE USING 2D MAP THEN
720REM SIMPLY IGNORE UP AND DOWN CODES
730REM
740REM *****
750
760
770REM THE FOLLOWING IS AN EXAMPLE
780REM REPLACE THIS WITH YOUR OWN MAP DATA
790
800REM Z=1 Y=1 X=1
810DATA N,S,E,W,U,D
820REM Z=1 Y=1 X=2
830DATA N,S,E,W,U,D
840REM Z=1 Y=1 X=3
850DATA N,S,E,W,U,D
860REM Z=1 Y=1 X=4
870DATA N,S,E,W,U,D
880REM Z=1 Y=1 X=5
890DATA 0,S,0,W,0,D
900REM Z=1 Y=2 X=1
910DATA 0,S,0,W,U,D
920REM Z=1 Y=2 X=2
930DATA N,S,0,W,0
940
960REM AND SO ON

```

```

10REM *****
30REM DIRECTION FINDER ROUTINE
40REM
50REM BY L.ALPHA
60REM
70REM HIMEM MUST BE EQUAL TO &6400 AND
80REM THE MAP STORED ABOVE HIMEM TO
90REM USE IT.
100REM
110REM LET'S ASSUME THAT WE ARE DEALING
120REM WITH A 5 BY 5 BY 5 MAP AND YOU CAN
130REM GO IN 6 DIRECTIONS (N,S,E,W,U,D)
140REM YOUR LOCATION IS X%,Y%,Z%
150REM
160REM *****
170

```

need 8 bytes per quadrant. The map of a quadrant looks like diagram one inside the memory. There are 8×8 quadrants in the galaxy so the memory requirement is only $8 \times 8 \times 8 = 512$ bytes, which is only $1/40$ th of what we started off with. The other thing you'll need is the bit test routine which I will explain in detail later.

Oh yes, I nearly forgot, the positions of Klingons. Well just have another map; additional 512 bytes. It will still leave you with a lot of memory to mess around with.

The moral of the story: if a map involves true or false then it can be BIT mapped and shrunk to an insignificant size.

What's that to do with adventure games? Well, let's say that you have a square 5 by 5 map for your adventure land and for each location you have to know in which direction you can travel. Say six directions north, south, east, west, up and down. Now if you use an integer DIM Array

`DIM A%(4,4,5)`

(remember that BBC's DI array has 0th elements) this will take up 600 bytes worth of memory. (Not much but if you have a larger map, the DIM will eat up a considerable amount). You can map it in just 25 bytes with the BIT map method.

Whether the player can go in a particular direction is a true or false question right? So if you define the first BIT (2 0) north, the second Bit (2 1) south and so on and putting in 1 if you can go that way and 0 if you can't. All you then have to do is bit test to see in which direction the player can go.

To test whether a BIT is 1 or 0 you must AND the number which contains the direction code with another number which is a power of two. AND executes the following binary operations.

0 AND 0 = 0
1 AND 0 = 0
0 AND 1 = 0
1 AND 1 = 1

Example:— 70 AND 2 = 01000110 AND 00000010

01000110
AND 00000010

00000010

Example:— 70 AND 8 = 01000110 AND 00001000

01000110
AND 00001000

00000000

Let's put this into practical use. Say there is a location where the player can travel north, south and up.

The code will be

$2^7 2^2 2^3 2^2 2^1 2^0$

DUWESN

00010011 = 19

To test if the player can go north AND the code with

$2^7 0 = 1 = 00000001$

00010011
AND 0 0 0 0 0 0 1

0 0 0 0 0 0 1

If you test for west AND with $2^4 3 = 00001000 = 8$

OPERATION GREMLIN . . .

A very different game that combines the intrigue of adventure with the real time, machine code speed of arcade action. The player must control not one, but **EIGHT** different troopers, each with their own character status, in the search for the weapons that will destroy **THE GREMLINS**.

DRAGON TREK

Dragon Trek is a new implementation of a classic game, taking full advantage of the Dragons hi-res graphics and sound capabilities. Your starship's impressive armament is comprised of high energy Photon Torpedoes and Phasers. Both long and short range scanners (in full graphics) enable you to track the Klingons and your onboard computer will give you extra tactical facilities. As commander you will have to use strategy and cunning to outwit the enemy.

THE RING OF DARKNESS

BRITAIN'S No. 1 ADVENTURE GAME FOR THE DRAGON 32 IS NOW AVAILABLE FOR THE 48K SPECTRUM AND ORIC

THE RING OF DARKNESS is a complete role playing adventure in hi-res graphics, featuring a detailed land filled with towns, 3D dungeons, forests and seas, and populated by kings, princesses, evil rangers and other strange creatures. All versions are identical with respect to the adventure. The Oric version is recorded in fast mode only. Many hours of mystery and suspense await you in your quest to find **The Ring Of Darkness**.

ORDER WITH CONFIDENCE:
All titles in stock are dispatched by return of post.

SEND SAE FOR OUR FREE CATALOGUE.

Selected titles are also available from good software outlets and from Boots.



Complete this order form and post it to: **WINTERSOFT, Dept. MA, 30 Uplands Park Rd., Enfield, Middx., EN2 7PT.**

DRAGON 32

| | |
|----------------------------|-------|
| The Ring Of Darkness | £9.95 |
| Dragon Trek | £6.95 |
| Pepper's Game Pack | £6.95 |
| Artist's Designer | £6.95 |

ORIC-1 48K

| | |
|----------------------------|-------|
| The Ring Of Darkness | £9.95 |
| Operation Gremlin | £6.95 |

SPECTRUM 48K

| | |
|----------------------------|-------|
| The Ring Of Darkness | £9.95 |
|----------------------------|-------|

I enclose my cheque/PO for £

NAME

ADDRESS

All prices include p&p, VAT and the WINTERSOFT guarantee of quality and reliability.

WINTERSOFT
SOFTWARE

WINTERSOFT, 30, Uplands Park Road, Enfield, Middlesex EN2 7PT.

DEALER ENQUIRIES WELCOME 01-367 5720

◀ 00010011
AND00001000

00000000

In the general case:
(location code) AND 2 (direction code) if
you can go that way and
(location code) AND 2 (direction code) = 0
when you cannot go that way.

This can be programmed in a IF-THEN-
ELSE statement as follows: IF (A% AND
2↑B%) () 0 THEN PRINT"OK. YOU
MOVE THAT WAY" ELSE
PRINT"YOU CAN'T GO THAT WAY"

The theory's over, let's put this into
practice. First of all you need to draw a
map. It can be two or three dimensional.
For each location mark all the directions
you can go as I have done in the diagram
two. Now load in the appropriate portion
of the MAP LOADER program. It con-
tains all the necessary instructions and
explanations in the REM statements, so it
should be easy to understand. You must
reserve memory space by inputting
HIMEM=&6400 (or any other suitable
address) because this program uses memory
space above HIMEM to store the map
rather than using a DIM statement. It is
easier to SAVE the map. Add the map data
to the program as instructed in the RUN it.
After that store the map using:
×SAVE"MAP" 6400 7C00

To use this map you'll need the
direction finder procedure in your main
adventure program. All you need is the basic
four-line PROCDIRECTION procedure. □

```
180
190
200REM THE DIRECTIONS ARE CODED IN THE
210REM FOLLOWING MANNER
220REM NORTH=0
230REM SOUTH=1
240REM EAST =2
250REM WEST =3
260REM UP =4
270REM DOWN =5
280
290
300REM ROUTINE TO INPUT THE DIRECTION YOU WANT TO GO
310REM YOU CAN CHANGE THIS BIT TO SUIT YOUR
320REM WORD RECOGNITION ROUTINE.
330
340
350INPUT"WHICH WAY DO YOU WANT TO GO ",W$
360W$=LEFT$(W$,1)
370IF W$="N" THEN P%=0
380IF W$="S" THEN P%=1
390IF W$="E" THEN P%=2
400IF W$="W" THEN P%=3
410IF W$="U" THEN P%=4
420IF W$="D" THEN P%=5
430PROCDIRECTION
440PRINT"YOU ARE AT LOCATION X=";X%;" Y=";Y%;" Z=";Z%
450END
460
470
480
490REM PROCDIRECTION IS THE IMPORTANT BIT YOU NEED
500REM ALL YOU HAVE TO DO IS TO SET P% TO THE
510REM DIRECTION CODE AND CALL IT.
520REM IT GETS THE DIRECTION CODE FOR YOUR PRESENT
530REM POSITION FROM THE MAP AND STORES IT INTO F%
540REM THE FORMULA FOR F% IS AS FOLLOWS
550REM F%=(address of the start of the map"+
560REM X%/Y%*length of X-direction"+Z%*length
570REM of Y-direction*X%length of X-direction")
580REM THEN IF (F% AND 2^P%)<>0 TEST TO SEE
590REM IF YOU CAN GO THAT WAY AND MOVE YOU TO
600REM NEXT LOCATION. IF YOU CAN'T GO THAT WAY
610REM IT WILL TELL YOU SO.
620
630
640DEF PROCDIRECTION
650F%=(&6400+X%/Y%*X%+Z%*X%25)
660IF (F% AND 2^P%)<>0 THEN Y%=Y%+(P%=0)-(P%=1)*X%/(X%+(P%=2)-(P%=3)*Z%/(Z%+(P%=
4)-(P%=5) ELSE PRINT"YOU CAN'T GO THAT WAY"
670ENDPROC
680
690
700REM FOR A 2-D MAP MODIFY PROCDIRECTION THUS
710REM LINE 640 : DELETE Z%=25
720REM LINE 650 : DELETE Z%=Z%+(P%=4)-(P%=5)
```

WHATEVER YOUR TASTE...

Crystal Computing have the adventure for you!

Halls of the Things

A stunning multi-level maze 'arcade - adventure'.
"The Game of '83"...ZX Computing.
"Excellent and dangerously addictive - could change the
spectrum games scene overnight"...Sinclair User.
"Spectacular - one of the best games I've seen. The
mechanics of the game are superb finely balanced
between simplicity and addictiveness superb graphics
and colour - I can't recommend it highly enough."
...Popular Computing Weekly.

Arcade - Adventure

The Dungeon Master

Let your Spectrum be your guide in a totally new
dimension in adventures in the true spirit of traditional
role playing games where you design the scenario.
"I have been a Dungeons and Dragons fan for several
years - The package provides excellent entertainment
for all fans of the cult and should prove a good
introduction to the game"...Sinclair User.
"...really powerful - a great boon to anyone vaguely
interested in D & D"...Popular Computing Weekly.

"Highly recommended
for its versatility,
originality and quality.
Definitely well worth
obtaining."
...ZX Computing.

ZX Spectrum 48K
£7.50.

Role - Playing

The Island

The ultimate test of logic and deduction! Can you solve
the hidden mysteries of the South Pacific island on
which you have been stranded - and escape alive!
A brilliant classic style adventure game to fascinate and
frustrate you for months!

Traditional

All Games for
48K ZX Spectrum.
Only £7.50 each.

Crystal Computing
2 Ashton Way
East Herrington
Sunderland
SR3 3RX



Please Supply:
The Island ☐
The Dungeon Master ☐
Halls of the Things ☐

Catalogue (Please enclose SAE 6in. x 9in.) ☐

I enclose cheque/PO for.....

Name.....

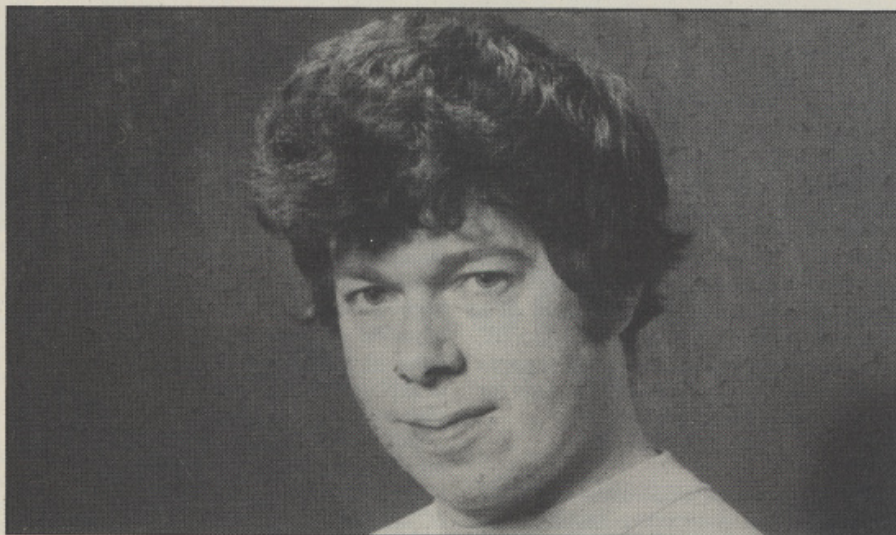
Address.....

Dealers!
Ring Chris Clarke on
061-205 6603 NOW for
details of our excellent
terms.

Programmers!
Send your Software to
us for a FREE
professional evaluation.

Conquering the stars by mail

A look at play-by-mail games past, present and future



Mike Singleton — "The players compete to gain control of the throne star"

EMPIRES ARE WON or lost in the space of an evening; light years pass in seconds; universes shrink, meet and are conquered in sitting rooms all over earth — technological change is about to transform the tame and relatively simple art of postal gaming beyond recognition.

Time between turns will be a matter of seconds rather than weeks and emperors will change change crowns as frequently as computer games players buy software. It is possible that with the introduction of interactive cable tv coupled with satellite transmissions, players from Papa New Guinea to the United States will battle each other for the control of the universe without moving out of their sitting rooms. But back to the less complicated present.

The first play-by-mail game started in the UK with Diplomacy about 12 years ago, and the first computer-moderated PBM started in 1981 with Starlord, written by a former teacher from Liverpool, Mike Singleton.

It was a spin-off from a game played in the United States called Starweb, from Flying Buffalo. An Englishman called Chris Harvey learnt of the game and arranged to bring it to the UK. He acted as the posting centre. Players would send their moves onto Chris who would forward them on to Flying Buffalo where they were processed and returned to the UK.

After several years of playing and paying airmail rates Mike began Starlord. From a humble beginning with only five players in 1981, there are now 34 separate Starlord games running and more than 700 players — not just in the UK, but in Papua New Guinea, Canada, Australia and the US.

To play a PBM such as Starlord, which is designed so that new players can join at any time without disadvantage, you pay an entry fee of £1.25. For this you are given a rule book, the scenario and your first two turnsheets. The charge for subsequent turns is £1.25.

Your moves are fed into a computer. The game master then sends you a printout describing the consequences of that move, a map of the galaxy with various throne stars marked, the number of ships you have on each star, how many opponents are in your vicinity and the size of their forces.

Mike compares Starlord in aim to King of the Castle. "The players compete to gain control of the throne star and try to become emperor of the galaxy by battling either the present occupier or the computer." The emperor's turns are free for the duration of his reign. International players are given a four-week turnaround and in the UK there is a two-week turnaround.

Casting a net

In an innovative move that could change PBM games radically Mike has designed Starnet, a program to be played on Prestel. He hopes to begin its operation this month. It will be the first computer-moderated PBM to be played on a system such as Prestel in the UK. Similar versions have existed in the US for some time.

The UK version, however, enables micro owners to type in their commands and wait for replies. Everyone has access to the information at any one time. The US version is electronic mail, with the turns being loaded manually into the system, although sent in over the network. (One such game

exists in Britain but is buried deep among the pages of Prestel making it difficult for potential players to find.)

With Starnet the moves will go directly into the system. There will be no human interaction apart from the players. "In this way the UK version is unique," Mike said. "A player will be able to call up maps of the universe which will be stored on various pages as long as he is a member of Prestel."

The game has been designed on massive proportions with the three dimensional map alone taking up 343 Prestel pages. Starnet is similar to Starlord in aim with the task being to capture a throne spaceship. "As in Starlord there are different types of stars with different properties, but Starnet has been adjusted to fit in with the new system," Mike said.

"The major difference will be the map of the galaxy. Starlord was a standard flat disc Shape with a definite centre. In Starnet the map is three D arranged as a cube, and has 343 different sections each with a map of its own. The player is able to move from sector to sector by going North, South, East, West, up or down."

Mike is confident that Starnet will attract the players needed to make the project practical. Six months ago he advertised the game and 200 people replied.

"It will be possible to have up to 500 players in one game," Mike said. "It hasn't yet been properly costed but it is expected to be close to 25 pence a turn, with faster turnarounds of perhaps a day when the system is running smoothly. At the beginning turnarounds will be once a week. When there are no bugs, twice," he said.

Atlantis is another conventional computer-moderated game Mike plans to launch this year. Using the same theme as Starlord, Atlantis will be a war game/fantasy adventure. "It has a similar objective to Starlord except that it is set in an underwater environment where the player attempts to become leader," he said.

Starlord has attracted a number of competitors and now there are about 12 PBM games in the UK. The designer of Vorcon Wars, J M Nicholson, was a former Starlord player. Described as an advanced strategy PBM game, Vorcon Wars is set on a planet in a distant solar system. The player must explore the land of Vorcon and develop partnerships in trade with the inhabitants.

The competition with other players for trade forces you to build forts and set mines to protect the wealth you have amassed. The ultimate aim is to gain control of the planet. You can use anything from spy satellites to nuclear weapons to ensure the annihilation of your enemy. Turns are two weeks apart and cost £1, but £1.50 will pay for a rule book, example sheets and the first three turns.

For £1.50 a turn Keys of Bled is a PBM simulation which allows its participants to adopt any role they choose on the archaic planet. As an explorer, conqueror, ruler or merchant you will have to consider factors such as morale, combat ability and leadership. The characters and setting allow a▷

◁ degree of flexibility so that players write the game as it develops.

Having chosen their roles, players adopt objectives, which if unsuccessful or tiresome may be changed to suit present needs. The task is to lead a tribe through a new world knowing only what the rules tell you. Information is gathered gradually through exploration and asking questions.

Settling the tribe

When the tribe settles it can choose any three of 12 activities if they have accumulated enough skills during the journey. The activities include herding, scouting, hunting, weaving and implement-making. Most are necessary for the tribe's survival. A scouting party sent out to explore a mysterious cave returns with gold or a quantity of copper: a good find for new settlers in a foreign land.

The popularity of PBM games has generated two commercially-produced magazines and 130 amateur no-profit fanzines. Enthusiasts produce these fanzines for each other covering the games they play. They provide hints and cover the history of the PBM — and sometimes are highly recommended reading. An example is *Interim* which accompanies Starlord.

More sophisticated than most fanzines, being professionally typeset, *Interim* is published quarterly. It contains articles from players on strategy, tactics, opinions,

imperial reports and fiction. It sells for 25 pence an issue.

The two commercially-produced magazines in the UK are *PBM*, from Emjay Publications, and *Flagship*, from Nicky Palmer, a former editor of a general games magazine. Both titles were recently launched with their first editions appearing in October and November respectively.

PBM is published every second month. Edited by Mike Costello, who also publishes *The War Machine*, it aims to be a comprehensive guide to play-by-mail and modem gaming. Included are in-depth game profiles, reports on current games, articles on recent developments, coverage of non-commercial war games and role-playing and adventure programs.

Flagship is a quarterly publication, aiming at an international audience. It is professionally typeset, complete with a colour front cover. The magazine aims for the PBM player's greatest weaknesses with articles such as how to win at PBM — a discussion on tactics; Professional Secrets, which analyses popular games and suggests novel strategies; and a workshop section for games designers; and reviews.

Sophistication

With an increased enthusiasm for PBM and multi-player games the mediums on which they can be used are becoming more sophisticated. The scenario at the beginning

may not occur for some time but the day when cable tv and modem gaming can be used is close.

According to Mike Costello, the introduction of interactive services will enable players to send information back and forth on the cable system. "Such networks are fully capable of handling multi-player games in which the participants are scattered all over the country but can communicate via terminals linked by cable," he said.

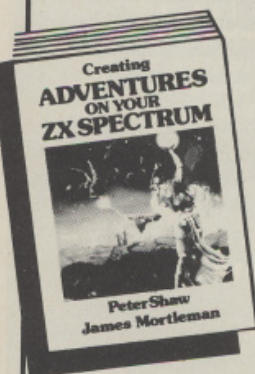
The main problem was in getting users to pay: "It is accepted that cable will not become profitable until it is linked to a satellite broadcast."

Problems

While modem gaming enables a quick turnaround, long-term problems have occurred in the US, with a rich player monopolising the game after six months. Because telephone cables are used, the number of turns you have depends on how high a Telecom bill you can afford. However with modems it is possible to play an entire game in one evening, while a game of diplomacy could take 1½ to two years to play using the Post Office.

But cable seems the most practical direction for interactive PBM gaming to go in the long term. And with the introduction of satellite transmissions, transcontinental multi-player games will be won and lost in an evening. □

Blast off to ADVENTURE



Create and solve ADVENTURE programs on your Spectrum, Commodore 64, Dragon, Oric or BBC Micro.

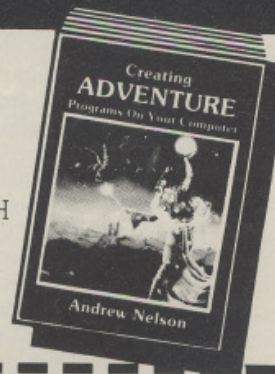
CREATING ADVENTURES ON YOUR ZX SPECTRUM —

Peter Shaw and James Mortleman. Create and solve Adventure programs on the Spectrum with this exciting new book which includes five complete major programs, plus chapter after chapter of hints and tips to help you write your own programs. Chapter

headings include Creating Locations; Picking Things Up; Monsters; Adding Graphics; and Adding to the Vocabulary. Just £4.95 and you're up and away.

CREATING ADVENTURE PROGRAMS ON YOUR COMPUTER — Andrew Nelson. If your computer uses a version of Microsoft BASIC, then this book is for you. It contains three complete Adventure programs, along with extensive documentation to help you create and solve Adventures. Suitable for use with the Commodore 64, Dragon, Oric, BBC Micro, Sirius, IBM PC and

Apple, you'll find this book an easy-to-understand primer on Adventure creation. The full-length programs include WEREWOLVES AND WANDERER and THE AFTERMATH OF THE ASIMOVIAN DISASTER. This book is just £4.95



Interface Publications, 44-46 Earls Court Road, London W8 6EJ

Please send me the following books. I enclose £.....

- ☐ Creating ADVENTURES on your ZX Spectrum
Shaw/Mortleman — 4.95
- ☐ Creating ADVENTURE programs on your Computer
Andrew Nelson — £4.95

Name:

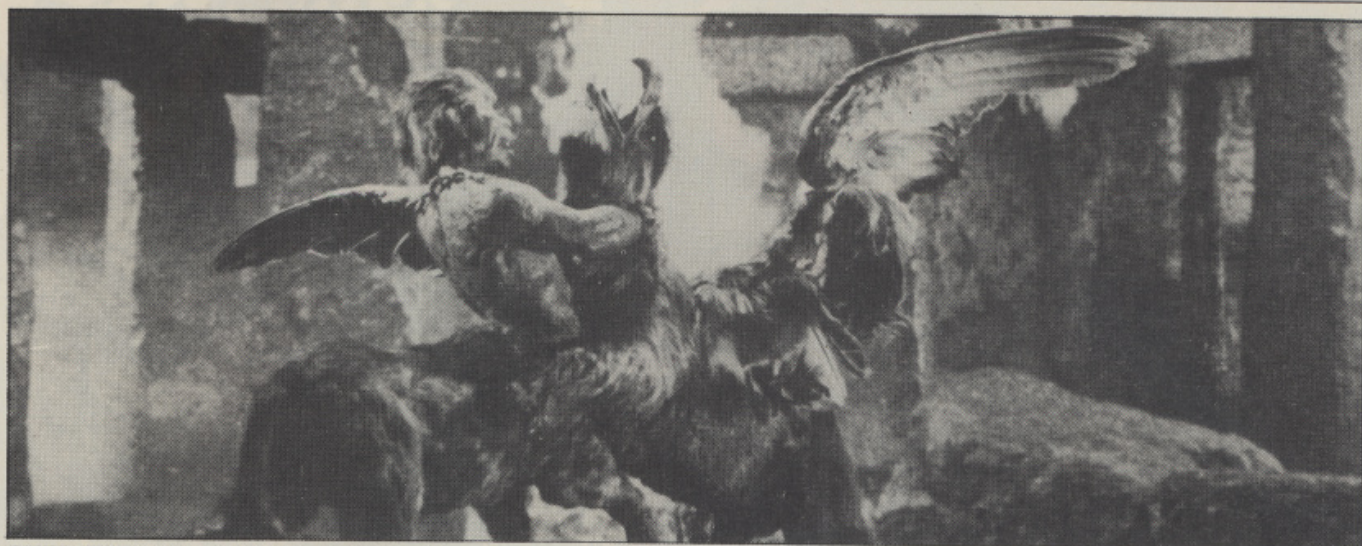
Address:

**INTERFACE
PUBLICATIONS**



Computer and book trade supplied by The Computer Bookshop,
30 Lincoln Road, Olton, Birmingham B27 6PA (021 707 7544, telex 334361)

MA



OVER THE past two months we have built up an adventure program from scratch, and now have a valley that contains a footpath that weaves through it, several caves, a forest and a swamp. We also have a large selection of monsters, magical items, gems and spells.

But the valley still has one very important piece of architecture missing: the dark dungeons of Darganyon. Hidden somewhere in the depths of these dungeons is the key which you must find and take back to the palace to open a chest that contains a magic potion to cure your dying king.

This program has been written in Micro-soft Extended Colour Basic as used on a variety of micros including the Dragon and the IBM PC. Listing one is responsible for drawing the dungeons and controlling everything that goes on inside them. Remember that where there is more than one space, a symbol has been inserted to make it easier for you to count how many spaces to type in.

Line 300 puts the dungeons into the valley. An inversed D represents them. Line 550 lets you enter the dungeon in the usual way (i.e. by moving onto the inversed D).

The screen is cleared and the top floor of the dungeon is drawn by lines 1510 to 1620. A few objects, represented by the stars, are scattered about the floor by lines 1640 to 1670 and the timer is reset by line 1680. You

Stage is set for the Valley of Death

Brian Lloyd adds an important and final feature to Death Valley in this excerpt from "The Dragon Trainer"

have to stay in for a certain amount of time before the door opens. Line 1700 tells you where you are. Lines 1710 to 1750 are copies of lines earlier on in the program.

Lines 1930 to 1950 decide which floor you are on and consequently send the computer to the correct one of the five floor-drawing routines from lines 1970-2280.

These lines are all PRINT statements and only draw each floor, so you can change the dungeons simply by changing these lines. You are asked whether you want to go up or down by lines 2460-2510. The stairs are represented by cyan blocks.

You may have noticed that one of the objects that you can find (lines 1850-1890) is a magic sword. This sword adds your strength to your energy when you are fighting, and for this reason we need line 2800 at the end of Listing One.

The next step is to allow the computer to acknowledge your success in bringing the key back to the palace. Listing two does this, and gives you a picture as a reward. I won't go into explanations of the graphics as it will take too long and will spoil the surprise at the end of the game (no RUNning this routine and peeking at the picture — that's cheating).

The Valley of Death is almost finished now, all that's left is to tidy up the loose ends and add a few useful routines.

The first of these is covered by listing three and is an inventory. This routine is called each time you press the I key and will tell you everything you have.

If, while battling with a ferocious black pudding, you are called away to deal with a more timid one on your dinner plate, then it is useful to be able to save your character on tape. Listing four allows this

```
300 N=RND(288)+1024:IF PEEK(N)=96 THEN POKEN,4:ELSE 300
550 IF PEEK(MAN+D)=4 THEN G=MAN+W:Z=GOTO 1510
1510 FOR N=0 TO 288 STEP 32:PRINT N,STRING$(32,32):NEXT
1520 PRINT 8,STRING$(16,191):PRINT 940,CHR$(191);"####";
CHR$(191);" ";CHR$(191);"#####";CHR$(223);CHR$(191);
1530 PRINT 972,CHR$(191);" ";CHR$(191);"#####";CHR$(191);
" ";CHR$(191);CHR$(191);CHR$(191);"####";CHR$(191);
1540 PRINT 9104,CHR$(191);" ";FOR N=0 TO 3:PRINT CHR$(191);
NEXT:PRINT " ";CHR$(191);"####";CHR$(191);" ";CHR$(191);
1550 PRINT CHR$(191);CHR$(191);
1560 PRINT 9136,CHR$(191);" ";CHR$(191);" ";CHR$(191);"###";
CHR$(191);CHR$(191);"###";CHR$(191);"####";CHR$(191);
1570 PRINT 9168,CHR$(191);"####";CHR$(191);"####";CHR$(191);
" ";CHR$(191);CHR$(191);" ";CHR$(191);" ";CHR$(191);
1580 PRINT 9200,CHR$(191);" ";CHR$(191);" ";CHR$(191);CHR$(
191);CHR$(191);" ";CHR$(191);CHR$(191);
1590 PRINT CHR$(191);"###";CHR$(191);" ";CHR$(191);
1600 PRINT 9232,CHR$(191);" ";CHR$(191);" ";CHR$(191);" ";
CHR$(191);" ";CHR$(191);"####";CHR$(191);CHR$(191);" ";
1610 PRINT CHR$(191):PRINT 9264,CHR$(191);" ";CHR$(191);
"####";CHR$(191);"####";STRING$(3,191);"####";CHR$(191);
1620 PRINT 9296,CHR$(191);CHR$(207);STRING$(14,191)
1630 MAN=1321
1640 FOR N=0 TO RND(4)+2
1650 IF 0=1 THEN POKEMAN,36
1660 X=RND(9)*32+RND(14)+1032:IF PEEK(X)=96 THEN POKEX,106:
ELSE 1660
```

```
1670 NEXT:IF 0=0 THEN MAN=1321:Z=207
1680 IF LEVEL=0 THEN TIMER=0
1690 TW=1
1700 PRINT 9320,"IN THE dungeon#####";
1710 IF DEAD<>0 THEN DEAD=DEAD+1:IF DEAD=18 THEN 3770
1720 POKEMAN,36
1730 IF I>400 THEN I=400
1740 IF EN>400 THEN EN=400
1750 IF ST>400 THEN ST=400
1760 GOSUB 2300
1770 GOSUB 360
1780 E=E+1:IF E=10 THEN EN=EN-1:E=0
1790 IFRND(4)=2 AND DEAD=0 THEN GOSUB 2770
1800 IF LEVEL=0 AND TIMER>1000 THEN POKEX 1321,96
1810 IF PEEK(MAN+D)=223 THEN MAN=MAN+D:Z=223:GOSUB 2460:GOTO
1930
1820 IF PEEK(MAN+D)=96 THEN MAN=MAN+D:POKEMAN-D,Z:Z=96:GOTO
1840
1830 IF PEEK(MAN+D)=106 THEN MAN=MAN+D:POKEMAN-D,Z:Z=96:GEM=1
1840 IF MAN=1321 THEN PRINT 9320,STRING$(17,32):GOSUB 1500:
MAN=0:Z=W:TW=0:GOTO 440
1850 IF GEM=1 THEN RND(6)
1860 IFR=4 AND RND(5)=2 AND WAND=1 AND KEY=0 THEN PRINT 9480,
"YOU'VE FOUND the";CHR$(128);"key!";FOR N=0 TO 2000:
NEXT:PRINT 9480,STRING$(30,32):KEY=1:GEM=0
1870 IF GEM=1 AND R=2 AND SD=0 THEN PRINT 9480,"YOU'VE FOUND THE
Continued on page 20
```


Continued from page 19

```

MAGIC SWORD!";:FORN=0T02000:NEXT:PRINT@480,STRING$
(31,32);:SD=1:GEM=0
1880 IFGEM=1ANDP=3THENPRINT@480,"YOU'VE FOUND A PRECIOUS
STONE!";:FORN=0T02000:NEXT:PRINT@480,STRING$(31,32);:
TR=TR+RND(5)*100:GEM=0
1890 IFGEM=1THENPRINT@480,"YOU'VE FOUND A WORTHLESS
STONE!";:FORN=0T02000:NEXT:PRINT@480,STRING$(31,32);:
GEM=0
1900 D=0
1910 GOTO1720
1930 IFLEVEL=0THEN0=1:GOTO1510:ELSEIFLEVEL>0ANDLEVEL<6THEN
ON LEVEL GOTO1970,2050,2120,2180,2240
1940 IFLEVEL<0THENLEVEL=0:GOTO1930
1950 IFLEVEL>5THENLEVEL=5:GOTO1930
1960 0=1:GOTO1640
1970 PRINT@41,"#####";CHR$(191);"#####";CHR$(223);CHR$
(191);PRINT@73,"####";STRING$(8,191);" ";CHR$(191);" ";
CHR$(191)
1980 PRINT@105," ";CHR$(191);"###";CHR$(191);"#####";CHR$
(191);" ";CHR$(191);:PRINT@137," ";CHR$(191);" ";CHR$
(191);CHR$(191);"#####";CHR$(191);"###";
1990 PRINTCHR$(191);" ";CHR$(191);" ";CHR$(191)
2000 PRINT@169," ";CHR$(191);" ";CHR$(191);"###";CHR$(191);
CHR$(191);" ";CHR$(191);CHR$(191);"#####";CHR$(191);
PRINT@201," ";CHR$(191);"#####";CHR$(191);
2010 PRINT " ";CHR$(191);"###";CHR$(191);" ";CHR$(191)
2020 PRINT@233," ";STRING$(3,191);"###";STRING$(4,191);" ";
CHR$(191);CHR$(191);" ";CHR$(191);PRINT@265,CHR$(223);
"#####";CHR$(191);"###";CHR$(191);
2030 PRINT " ";CHR$(191);PRINT@295,STRING$(16,191);
2040 GOTO1960
2050 PRINT@41,STRING$(13,32);CHR$(223);CHR$(191);PRINT@73,
"#####";STRING$(8,191);" ";CHR$(191);" ";CHR$(191)
2060 PRINT@105," ";CHR$(191);" ";CHR$(191);CHR$(191);
"#####";CHR$(191);PRINT@137," ";CHR$(191);"###";
CHR$(191);"#####";CHR$(191);" ";CHR$(191);
2070 PRINT " ";CHR$(191)
2080 PRINT@169," ";CHR$(191);"###";CHR$(191);" ";STRING$
(7,191);" ";CHR$(191);PRINT@201," ";CHR$(191);
"#####";CHR$(191);" ";CHR$(191)
2090 PRINT@233," ";CHR$(191);CHR$(191);CHR$(191);" ";
STRING$(5,191);" ";CHR$(191);CHR$(191);" ";CHR$(191);
PRINT@265,CHR$(223);"#####";CHR$(191);
2100 PRINT"#####";CHR$(191)
2110 GOTO1960
2120 PRINT@41,"#####";CHR$(191);"#####";STRING$(4,191);"###";
CHR$(223);CHR$(191);PRINT@73,"#####";CHR$(191);
"#####";CHR$(191);" ";CHR$(191)
2130 PRINT@105," ";STRING$(9,191);" ";CHR$(191);CHR$(191);
" ";CHR$(191);PRINT@137,STRING$(14,32);CHR$(191);
PRINT@169,STRING$(5,191);" ";CHR$(191);" ";
2140 PRINTCHR$(191);CHR$(191);" ";CHR$(191);CHR$(191);" ";
CHR$(191)
2150 PRINT@201,CHR$(191);"###";CHR$(191);"###";CHR$(191);
" ";CHR$(191);"#####";CHR$(191);" ";CHR$(191);PRINT@233,
"#####";CHR$(191);CHR$(191);" ";
2160 PRINTSTRING$(3,191);" ";CHR$(191);" ";CHR$(191)
2170 PRINT@265,CHR$(223);"#####";STRING$(4,191);"###";CHR$
(191);"#####";CHR$(191);GOTO1960
2180 PRINT@41,"#####";CHR$(191);" ";CHR$(191);"###";CHR$
(223);CHR$(191);PRINT@73," ";STRING$(4,191);" ";
STRING$(3,191);" ";CHR$(191);CHR$(191);"###";
2190 PRINTCHR$(191);PRINT@105,STRING$(11,32);CHR$(191);
"###";CHR$(191);PRINT@137," ";STRING$(9,191);" ";CHR$
(191);CHR$(191);" ";CHR$(191)
2200 PRINT@169," ";CHR$(191);" ";CHR$(191);STRING$(10,32);
CHR$(191);PRINT@201,CHR$(191);CHR$(191);" ";CHR$(191);
" ";CHR$(191);" ";STRING$(4,191);
2210 PRINT"###";CHR$(191);CHR$(191)
2220 PRINT@233,"#####";CHR$(191);"#####";CHR$(191);CHR$
(191);" ";CHR$(191);CHR$(191);PRINT@265,CHR$(223);CHR$
(191);" ";STRING$(6,191);"#####";CHR$(191)
2230 GOTO1960
2240 PRINT@41,"#####";CHR$(191);" ";CHR$(191);"#####";CHR$
(223);CHR$(191);PRINT@73," ";STRING$(4,191);"#####";CHR$
(191);" ";CHR$(191);" ";STRING$(3,191)

```

```

2250 PRINT@105,"###";CHR$(191);"#####";CHR$(191);" ";STRING$
(3,191);" ";STRING$(3,191);PRINT@137,"#####";CHR$(191);
" ";CHR$(191);"#####";STRING$(3,191)
2260 PRINT@169,STRING$(3,191);" ";STRING$(7,191);"#####";
CHR$(191);PRINT@201,"#####";CHR$(191);"###";STRING$
(3,191);" ";CHR$(191)
2270 PRINT@233,"###";STRING$(3,191);" ";CHR$(191);" ";CHR$
(191);" ";CHR$(191);" ";CHR$(191);" ";CHR$(191);
2280 PRINT@265,CHR$(223);" ";CHR$(191);"#####";CHR$(191);
"#####";CHR$(191);GOTO1960
2290 RETURN
2460 PRINT@320,"UP OR DOWN?";
2470 A$=INKEY$:IFA$=""THEN2470
2480 IFA$="D"THENLEVEL=LEVEL+1:GOTO2510
2490 IFA$="U"THENLEVEL=LEVEL-1:GOTO2510
2500 GOTO 2470
2510 PRINT@320,"#####";:RETURN
2810 IFSD=1THENHIT=HITS+RND(ST)

```

Listing Two

```

770 D=0
780 IFPL=1ANDKEY=1THEN3370
3370 CLS:PRINT"WELL DONE! YOU'VE SUCCEEDED!";:PRINT"THE
KING IS SAVED!";:PRINT"AND YOU MANAGED TO RETURN
WITH:-";:PRINT"the";CHR$(128);"key"
3380 PRINT"THE MAGIC WAND";:IFMEDALLION=1THENPRINT"THE
MEDALLION OF LIFE"
3390 IFSHIELD=1THENPRINT"THE MAGIC SHIELD"
3400 IFAULET=1THENPRINT"THE AMULET OF THE GODS"
3410 IFSD=1THENPRINT"THE MAGIC SWORD"
3420 FORN=1T020:IFPOTION(N)>0THEN3440
3430 NEXT:GOTO3450
3440 PRINT"AND SOME POTIONS!"
3450 PHODE3,1:PRINT:PCLS:GOSUB3790:PHODE3,1:SCREEN1,0:
FORN=0T02000:NEXT:GOTO4190
3790 DRAW"BM10,180;C4;R190U90L190D90R190E45U90G45"
3800 IFZ7=0THENCIRCLE(38,80),30,4,1.48,.46,.8
3810 IFZ7=0THENCIRCLE(226,80),30,4,1.48,.46,.85
3820 IFZ7=0THENLINE(40,38)-(230,38),PSET
3830 LINE(92,90)-(120,110),PSET,B
3840 PAINT(92,92),2,4
3850 COLOR3
3860 LINE(104,92)-(108,108),PSET,BF:CIRCLE(106,98),7
3870 PAINT(120,170),2,4:PAINT(220,80),2,4:IFZ7=0THENPAINT
(210,70),2,4:PAINT(40,80),2,4
3880 COLOR4
3890 N=30
3900 FORN=160T0176STEP4:LINE(N,M)-(210-N,M),PSET:N=N-4:
NEXT
3910 M=20
3920 FORN=14T030STEP4:LINE(N,M+95)-(N,195-M),PSET:M=M+4:
NEXT
3930 N=30:FORN=130T0114STEP-4:LINE(N,M)-(210-N,M),PSET:
N=N-4:NEXT
3940 M=20:FORN=196T0180STEP-4:LINE(N,M+95)-(N,195-M),PSET:
M=M+4:NEXT
3950 LINE(14,92)-(36,112),PSET,BF:COLOR3:LINE(40,92)-
(60,112),PSET,BF:COLOR1:LINE(64,92)-(84,112),PSET,BF
3960 LINE(128,92)-(148,112),PSET,BF:COLOR3:LINE(152,92)-
(172,112),PSET,BF:COLOR4:LINE(176,92)-(196,112),PSET,
BF
3970 PAINT(34,134),3,4:PAINT(28,136),4,4:PAINT(24,136),1,
4:PAINT(16,136),4,4
3980 IFZ7=1THEN4030
3990 FORN=38T0220STEP9:CIRCLE(N,80),30,4,1.48,.46,.8:NEXT
4000 FORN=40T0218STEP36:PAINT(N,75),4,4:NEXT
4010 FORN=20T0180STEP36:PAINT(N,75),3,4:NEXT
4020 FORN=34T0180STEP36:PAINT(N,75),1,4:NEXT
4030 COLOR2:LINE(12,91)-(198,91),PSET
4040 COLOR4:LINE(92,90)-(120,110),PSET,B
4050 IFZ7=0THENCOLOR1:LINE(38,37)-(230,37),PSET:LINE
(38,36)-(230,36),PSET
4060 DRAW"BM208,158;C4;E27064627D64";:PAINT(220,130),3,4
4070 IFZ7=0THENZ7=1:RETURN
4080 COLOR4
4090 DRAW"BM10,90;C4;E45R190L190D44"
4100 DRAW"BM10,90;C4;E8540R190E10G10"
4110 DRAW"BM10,90;C4;E85R190"

```

Continued on page 22

◁ at any time simply by pressing the KEY (except while fighting). It opens a file to the tape, gives the file your character's name and then stores all the relevant variables on tape.

Unfortunately, or fortunately depending on where your character is, when you load your character back he will start at the palace, however, he will still have all his possessions (except the key if he had it — that would make things too easy).

Having saved your character you can load him back with the help of listing five. This allows you to load a character at the start of a game (by typing L) or to start a new game (by typing R).

The next thing is to give the character an

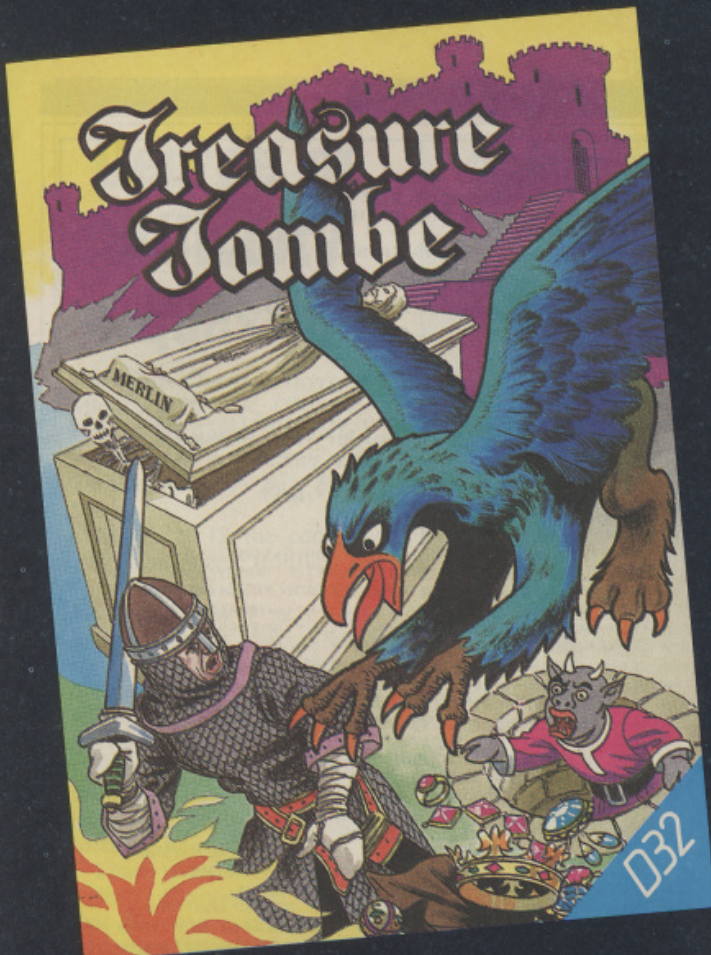
ego. This routine gives you an idea of how well you are doing, and may be called at any time simply by pressing E (unless you are fighting, of course). Listing six handles this feature. This routine works by simply seeing how high your experience is and giving you a rating accordingly. There is also incorporated a routine which increases your strength, IQ and energy after every 500 experience points.

The Valley of Death is now finished — unless of course you want to add anything in which case you will probably need to compress some lines as the program is rather long. Hopefully this program has given you an idea of how to go about writing your own adventure programs, and

will give you some enjoyment as you battle your way through the valley to save your king's life.

If any of you find that the program is too long to type in then I would be pleased to send you a copy of The Valley of Death on tape for £3.00 including postage and packing. You should write to Brian Lloyd, 9 Hornbeam Walk, Witham, Essex CM8 2SZ.

Each of the three parts of this series of articles can be used on its own, but works better as a whole. Send a stamped addressed envelope to Valley of Death, Micro Adventurer, 12-13 Little Newport St, London WC2R 3LD, for photocopies of the two preceding articles. □



Blood and Thunder!

Adventures for the bolder D32 owner

Mike Meineck's first sagas for the more courageous Dragon-basher. Based on skill and cunning, rather than random elements. (Clue sheets available for trapped adventurers.)

TEMPLE OF ZOREN

Nobody made it back alive yet, but Terran Security need plans of the defences and a sample of the new Zoreen laser gun.

THE CRYSTAL CHALICE

The Klarz scattered the shards of the Chalice and darkness reigns supreme over Quorum. A mind-bending Quest for Swords and Sorcery fans.

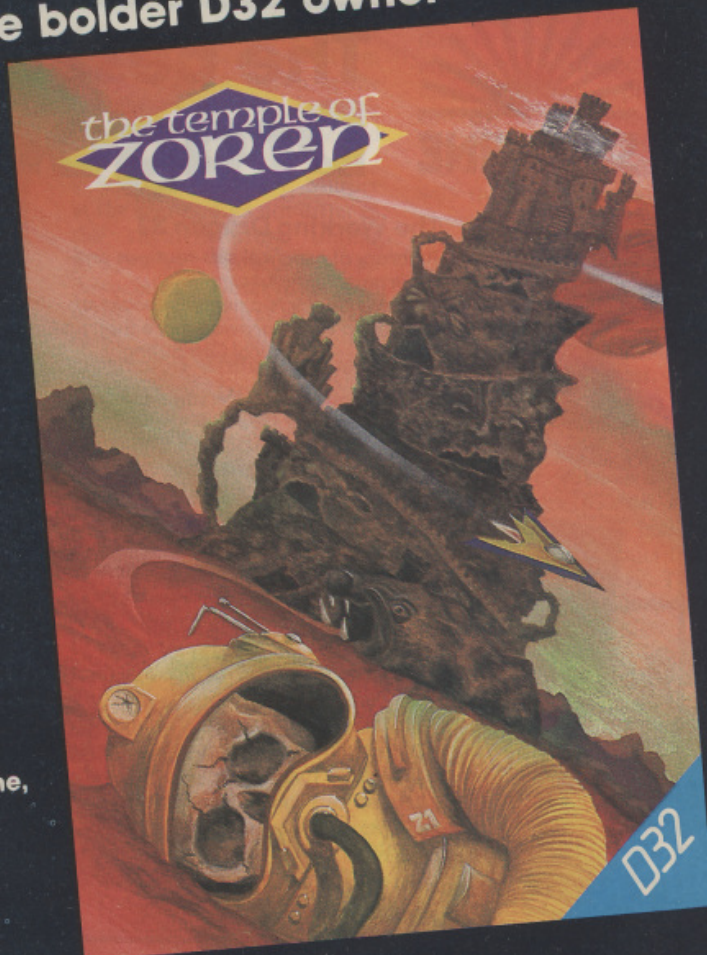
TREASURE TOMBE

A real-time graphics adventure set in Merlin's massive tomb complex. Violent death or Arthur's treasure?

£7.95 per adventure from all good Dragon dealers or if in difficulty direct from:



DUNGEON SOFTWARE
Milton House, St John Street, Ashbourne,
Derbyshire DE6 1GH.
Telephone: Mail order (0335) 42529
Trade & Retail (0335) 42639



Continued from page 20

```
4120 DRAW"EN200,90;C4;E45R2D1R4D1R2U1R2"
4130 PAINT(25,80),2,4:PAINT(60,80),2,4:PAINT(90,90),2,4:
      PAINT(246,44),2,4
4140 CIRCLE(125,125),500,3
4150 CIRCLE(150,90),15,4,1,5,0:PAINT(152,85),3,4:CIRCLE
      (150,90),15,3,1,5,0
4160 COLOR3:LINE(146,85)-(154,70),PSET,BF:COLOR1:LINE
      (146,69)-(154,64),PSET,BF
4170 PMODE3,1:SCREEN1,0
4180 GOT04180
4190 CLS0:PRINT0227,"THE CHEST WILL BE OPENED IN A*";
      PRINT0269,"*MOMENT*";PCLS:GOTO3790
```

Listing Three

```
2400 IFA#="I" THEN GOSUB 3460
3460 FORN=320 TO 448 STEP 32:PRINT0N," ":NEXT:PRINT0480,
      STRING$(30,32):PRINT0320,"":
3470 IF WAND=1 THEN PRINT" *WAND"
3480 IF SD=1 THEN PRINT" *SWORD"
3490 IF MEDALLION=1 THEN PRINT" *MEDALLION"
3500 IF AMULET=1 THEN PRINT" *AMULET"
3510 IF SHIELD=1 THEN PRINT" *SHIELD"
3520 IF KEY=1 THEN PRINT" *the*";CHR$(128);"key";
3530 FORN=0 TO 20:IF POTION(N)>0 THEN 3550
3540 NEXT:GOTO 3570
3550 FORN=0 TO 3000:NEXT:FORN=320 TO 448 STEP 32:PRINT0N," ":
      NEXT:PRINT0480,STRING$(30,32):M=0:FORN=0 TO 20:IF
      POTION(N)>0 THEN M=M+1:NEXT:ELSE NEXT
3560 PRINT0320,M;"POTIONS":M=0
3570 IF AMULET=0 AND SD=0 AND KEY=0 AND MEDALLION=0 AND SHIELD=0 AND
      WAND=0 THEN PRINT" *NOTHING*"
3580 FORN=0 TO 3000:NEXT:FORN=320 TO 448 STEP 32:PRINT0N," ":
      NEXT:PRINT0480,STRING$(30,32):GOSUB 360:RETURN
```

Listing Four

```
3590 CLS:PRINT" IS THE TAPE READY?"
3600 A#="Y" THEN 3630
3610 PRINT" PRESS play AND record ON TAPE":FORN=0 TO 3000:
      NEXT
3620 PRINT" SAVING *NAME*:" THE *;CLASS#
3630 OPEN"O",-1,NAME#
3640 PRINT#-1,CLASS#;ST;I0;EN;ST;EX;ME;SD;WA;SH;AM;
3650 FORN=0 TO 20:PRINT#-1,POTION(N);NEXT
3660 CLOSE#-1
3670 PRINTNAME#;" THE *;CLASS#;" SAVED"
3680 END
```

Listing Five

```
40 INPUT" LOAD CHARACTER OR RESTART*";A#
```

```
50 IFA#="L" THEN 3690
60 IFA#="R" THEN 40
3690 CLS:INPUT" CHARACTER'S NAME";NAME#
3700 PRINT" PRESS play ON TAPE":FORN=0 TO 3000:NEXT
3710 OPEN"1",-1,NAME#
3720 INPUT#-1,CLASS#,ST,I0,EN,ST,EX,ME,SD,WA,SH,AM:FORN=
      0 TO 20
3730 IF EOF(-1) THEN 3760
3740 INPUT#-1,POTION(N);NEXT
3750 CLOSE#-1
3760 GOTO 190
```

Listing Six

```
10 DIME(200):FORN=1 TO 200:E(N)=N*500:NEXT:G=1:CLS
450 IF EX(E(G)) THEN G=G+1:EN=EN+RND(5)*5:I0=I0+RND(5)*5:
      ST=ST+RND(5)*5
2440 IFA#="E" THEN GOSUB 4290
4290 FORN=320 TO 448 STEP 32:PRINT0N,"":NEXT
4300 PRINT0480,STRING$(30,32):
4310 PRINT0320,"":
4320 IF EX<500 THEN PRINT" *FISH FOOD*":GOTO 4580
4330 IF EX<1000 THEN PRINT" *SWORD PRACTICE DUMMY*":GOTO 4580
4340 IF EX<2000 THEN PRINT" *APPRENTICE FOOL*":GOTO 4580
4350 IF EX<3000 THEN PRINT" *SNAIL SLAYER*":GOTO 4580
4360 IF EX<4000 THEN PRINT" *DRAGON'S TOY*":GOTO 4580
4370 IF EX<5000 THEN PRINT" *APPRENTICE SWORDSMAN*":GOTO 4580
4380 IF EX<6000 THEN PRINT" *WOLF MASTER*":GOTO 4580
4390 IF EX<7000 THEN PRINT" *SWORDSMAN*":GOTO 4580
4400 IF EX<8000 THEN PRINT" *LION TAMER*":GOTO 4580
4410 IF EX<9000 THEN PRINT" *3RD RATE HERO*":GOTO 4580
4420 IF EX<10000 THEN PRINT" *MASTER OF THE SWORD*":GOTO 4580
4430 IF EX<12000 THEN PRINT" *2ND RATE HERO*":GOTO 4580
4440 IF EX<13000 THEN PRINT" *LORD OF THE PATH*":GOTO 4580
4450 IF EX<14000 THEN PRINT" *LORD OF THE KEEP*":GOTO 4580
4460 IF EX<16000 THEN PRINT" *GOBLIN SLAYER*":GOTO 4580
4470 IF EX<18000 THEN PRINT" *CHAMPION*":GOTO 4580
4480 IF EX<22000 THEN PRINT" *HERO - 1ST CLASS*":GOTO 4580
4490 IF EX<26000 THEN PRINT" *DRAGON SLAYER*":GOTO 4580
4500 IF EX<30000 THEN PRINT" *WARRIOR*":GOTO 4580
4510 IF EX<35000 THEN PRINT" *LORD OF THE HEROS*":GOTO 4580
4520 IF EX<40000 THEN PRINT" *LORD OF THE PALACE*":GOTO 4580
4530 IF EX<45000 THEN PRINT" *DEATH DEFYER*":GOTO 4580
4540 IF EX<50000 THEN PRINT" *MONSTER TAMER*":GOTO 4580
4550 IF EX<60000 THEN PRINT" *PRINCE OF LIGHT*":GOTO 4580
4560 IF EX<70000 THEN PRINT" *RULER OF THE VALLEY*":GOTO 4580
4570 PRINT" *MASTER OF ETERNITY"
4580 FORN=0 TO 2000:NEXT
4590 PRINT0320,""
4600 G=1:GOSUB 360:RETURN
```



The best books for the Dragon 32



The Working Dragon 32

A library of practical sub-routines and programs. ISBN: 0 946408 01 7

- "There clearly is a need for books of this kind which provide more than just games" — *Practical Computing*, Sept 1983.
- "It's a good one" — *Personal Computer News*, May 20 1983



The Dragon Trainer

Written as a combined manual and beginners course on the power of Dragon Basic. It is aimed at the beginner and assumes no previous experience of computing. ISBN: 0 946408 09 2

Plus Sunshine Software



Cruising

Quick thinking and dexterity are required to master this high speed chase game.

Look out for the Sunshine range in W.H. Smith's, Boots, John Menzies, other leading retail chains and through our national network of bookshops and specialist stores.

Dealer enquiries:
01-734 3454.

Dragon 32 Games Master

Learn how to write your own top level games. ISBN: 0 94068 03 3

- "If you can't write a half way decent game after this then it will be down to your own lack of imagination. I would recommend the Brains book as the best of this selection." *Which Micro* — Sept 73



Advanced Sounds & Graphics for the Dragon Computer

All the major aspects of the sound and graphics capabilities of this machine are covered in extensive detail. ISBN: 0 946408 06 8



- Please send me
- ☐ The Working Dragon 32 at £5.95 each
 - ☐ The Dragon Trainer at £5.95 each

- ☐ Dragon 32 Games Master at £5.95 each
- ☐ Advanced Sound & Graphics at £5.95 each
- ☐ Cruising at £6.95 each

I enclose cheque/postal order for £_____ made payable to: Sunshine Books: 12/13 Little Newport St., London WC2R 3LD

Name _____

Address _____

Signature _____

We can normally deliver in 4/5 days.

Degree of difficulty a question

Adventure *Quest of Merravid*
Micro Vic 20, 16K, CBM 64
Price £7.95 Format Cassette
Supplier Martech Games, Bay
Terrace, Pevensey Bay, East
Sussex.

MARTECH IS the company which produced Conflict for Spectrum and other micros. I must say that I was quite impressed with that offering so, when Quest of Merravid dropped through my letterbox for review, I couldn't wait to start punching the keys.

Martech, I had decided, were innovative and not stuck in a rut like so many other software houses.

I have to admit to being just a little disappointed to find that this was a standard text adventure. 'Okay', I thought, 'nothing wrong with that.' Pausing only to pick up a bucket, I plunged into Blackwood Forest...

Quest of Merravid allows commands of up to nine words, although I never needed to use more than four. The object of the quest is to retrieve the dwarfs' firestone from the evil dragon. But you cannot enter the dragon's lair until you have collected a full set of armour.

Scattered about the landscape are six items of armour and your charger is a white stallion.

Locations you will find as you wander around include a country inn, a glacier, the King's stables (complete with manure) and a village of head-hunters.

The most interesting of these is the inn, where you can interact in a limited way with the regulars and a barmaid — all in the best possible taste of course.

The landscape is quite well laid out and map making is easy. The various problems encountered are not very challenging, so there were no expletives to delete I'm afraid.

The program is written in Basic and, considering the amount of memory available, there are disappointingly few locations.

Overall, I would say that

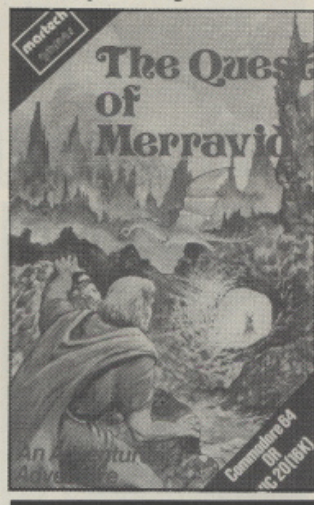
SOFTWARE INVENTORY

What's on the way in the adventure world — if you have a new adventure, war game or real-life simulation which you are about to release send a copy and accompanying details to Software Inventory, Micro Adventurer, 12-13 Little Newport St, London WC2R 3LD

Quest is okay but I would recommend it only for beginners. The more battle-hardened adventurer will breeze through it.

The cassette is supplied in both Vic and CBM 64 versions, one on each side.

For those owners of Conflict by Martech: I have read in several reviews that the rules make no mention of the movement of neutral ships. This is not so, neutral ships move according to force and direction of prevailing winds. **PM**



Foul play in country manor

Adventure *Murder at the Manor* Micro Spectrum 48K
Price £6.95 Format Cassette
Supplier Gemtime, 16 Ben
Ledi Rd, Kirkcaldy, Scotland.
THE phone rang late one night. The only way I could find who was calling was to lift the receiver.

"Hello, Sir," I heard, "this is P C Herring from Gemtown. We've 'ad a 'orrible murder down 'ere, Sir, and to be

'onest, oi can't 'andle it m'sel. Would yer come down and 'elp me out?"

'Ow, I mean, how could I resist such an invitation — after all, if I do say so myself, my reputation is known far and wide.

The local squire, whose safe contains a set of valuable gold coins, has been cruelly done in by a burglar. The local policeman is out of his depth, and your job is to solve the five clues that will lead to the apprehension of the culprit.

The title screen portrays a sleepy little village. Pressing a key starts the adventure. It is conducted with a split-screen. A graphic representation of the current scene takes up the top half of the screen, and text input and information from the computer is shown at the bottom. A compass showing the possible exits is presented at top left.

So far, so ordinary. Murder at the Manor does not differ in the slightest from similar programs from Phipps Associates, Quicksilver and others. The pictures are rather slowly drawn, and, as the program is written in Basic, wrongly typed inputs can result in frustrating waits, until the obligatory PARDON? appears.

Every time a location is visited, the picture is redrawn and this usually takes a long time. It would be better if this process could somehow be skipped. It becomes even more frustrating as many of the locations have exits that seem to loop around to other, already visited locations. Thus, the car park, west of the starting point seems to go on forever if the player continues to head west: Only by veering off at a tangent does the adventurer stumble across further locations.

The village, as far as I have

discovered, consists of several shops, a carpark, a police station, a church and a sheep pen.

By SEARCHING you may find several objects. Occasionally you'll stumble across a rabid rat, or a blood-thirsty sheep, who won't hesitate to sink their fangs into your leg or bowl you over, thus sapping your strength.

Strength is displayed when you type SCORE along with the percentage of locations so far visited and the time of day. There is no time limit but some strange things can happen at night, so beware!

While you are walking around the village, your strength is slowly being depleted and the food parcels, thoughtfully left lying around, may be eaten to provide you with much needed energy. As well as the usual commands, such as TAKE, QUIT and HELP, the program features a SAVE GAME routine. You may also, if you feel the need, FIGHT a character. Additionally, you may type in as many commands at one time as you wish. So you may type: SEARCH GROUND. PICK RIFLE. GO NORTH.

As you move around the village you'll meet local inhabitants and you may ask these to give you clues as to the murderer's whereabouts and identity. The replies are entered into your notebook, and at any time you may READ NOTES. The replies will then be redisplayed on-screen for you to inspect.

The unique thing about Murder at the Manor, is that each time you play, a different character is chosen as the murderer. Thus, as in Cluedo, each game is different. While not as sophisticated as some American Adventures (such as those from Infocom), which include case notes and newspaper cuttings, Murder at the Manor will certainly help you while away many hours trying to unravel the mystery. **TB**

Legacy of gems and wizards

Adventure *Wizardry III: The Legacy of Llylgamyn* Micro
Apple II+, IIE, III Format ▷

◁ **Disk Supplier** Sir-Tech
Ogdensburg, New York.

AT LAST the third Wizardry scenario Legacy of Llylgamyn has arrived, complete with the much-vaunted Windo-Wizardry.

Now Wizardry fans can stop watching television, reading books and doing all those other fill-in activities, and get on with the serious business of saving Llylgamyn from a fate worse than Visicale.

In case you've been away for the last few years, we'd better explain that Wizardry is a role-playing fantasy adventure game and was voted the most popular piece of software by the readers of Softalk magazine.

The first package, Proving Ground of the Mad Overlord, set the style and the second scenario, Knight of Diamonds, required a character to be transferred from the Proving Ground. In legacy of Llylgamyn a character can be transferred from either the first or second scenarios so you don't need to have completed Knight of Diamonds.

In view of the fact that Legacy will only sell to owners of at least Proving Ground we'll assume you know the basic style. The two questions I'll try to answer are: is Windo-Wizardry all it is claimed to be and how does the third scenario rate?

According to a quote featured in the press handout Windo-Wizardry emulates the window graphics of the Apple Lisa. Having used the Lisa system, we believe that this is a bit of an over-statement. To paraphrase Richard Lovelace, windows do not a Lisa make nor trailing wires a mouse. But ignoring such comparisons, Windo-Wizardry is a definite improvement on the old Wizardry display.

The idea is that the familiar three-D maze display fills the screen, but information is superimposed on this when necessary. Hence, rather than have the screen divided into the various boxes with the information always there, the maze is given the prominence it deserves and windows are overlaid. In fact windows can overlay each other and it is probably this aspect which led to the comparisons with Lisa. However, the sizes of the windows and their positions on-screen are fixed by the

program rather than the user.

The game comes on the usual double-sided disk with the master on one side and the scenario on the other. Since it requires characters from either Proving Ground or Knight of Diamonds, your first job is to transfer your characters onto a copy of the scenario disk. You must use a copy of the scenario disk, but it's now possible to make a copy even if you only have one disk-drive.

During the transfer process you can change the alignment of a character so your evil image can suddenly become as pure as the driven snow. But neither good or evil can succeed alone, so your party will be a motley bunch.

Before the game begins there is what amounts to a hi-res picture book to explain the story. This is an interesting departure from the usual Wizardry style, but it's a pity the reader isn't given control of the page-turning. If you spend too long looking at the pretty pictures, you miss the narrative.

After all the copying, transferring, and so forth, what about the game? Well, Wizardry fans shouldn't be

disappointed because all the familiar aspects are there — mazes, nasties to fight, treasures to win and riddles to answer before completing the quest. One of the levels contains what the designers consider to be "the worst mapper's nightmare ever to appear in a Wizardry scenario", so be warned.

A new Wizardry scenario would have been news anyway, and the addition of Windo-Wizardry makes the game even more enjoyable. As the long winter nights draw in, put another log on the fire and go forth into the unknown to save your people ... this is the Legacy of Llylgamyn. **CM**

Unwelcome gremlin guests

Adventure Operation Gremlin

Micro: Oric 48K **Price:** £6.95

Format: Cassette **Supplier:**

Wintersoft, 30 Uplands Park Rd, Enfield, Middx.

A GRAPHIC-centred adventure with arcade action, Opera-

tion Gremlin is set in a space city that has been over-run by gremlins.

Captain Bono and his crack squad of seven troopers have been sent in to rid the now evacuated city of its unwelcome visitors.

The city is shown as an aerial view, with lanes and highways connecting various buildings such as the space port, soya store, observation dome, leisure centre and broadcasting studio. The map is much larger than your tv screen so scrolls in the direction of the trooper being moved.

Each trooper is represented as a small figure. Controlling any one of the troopers at a time, you move around the city by means of the up, down, left and right cursor keys. Dotted around are various objects, mostly weapons. A trooper must move into one of these objects and the key P pressed to pick up the object (D drops it).

Pressing the I key reveals what the object is. Only one object can be carried at a time and not all weapons are harmful to the gremlins. Part of the fun is discovering what weapons have what effect.

Training plane takes flight

Simulator 737 Flight Simulator

Micro: BBC 32K **Price:** £9.95

Format: Cassette **Supplier:**

Salamander, 17 Norfolk Rd, Brighton.

IF YOU are very lucky I won't be piloting your 747 holiday flight next summer.

If this program is any indication of my flying abilities the chances of me ever getting you and Aunt Edna more than halfway to Majorca is roughly zero.

The program comes in a large, padded video-cassette-type packet complete with a 28-page manual on the extensive controls required to fly the simulator.

As with other programs of this kind the aspiring pilot must spend quite some time familiarising himself with the many commands and options before taxiing down the runway.

To enable the novice to have a quick flip there is a step by step set of instructions which will get you airborne. All you have to do is get down again.

The screen layout consists of a fair representation of the analogue and digital instrument



panel. However, I would have preferred more clocks and dials than the large number of digital readouts which, while they may be easier to read, do not give quite the same effect as the more traditional panel.

In addition to the standard instruments there are radio beacon indicators and an instrument landing system.

A pilot's view is given above the panel showing the converging lines depicting the run-

way during take-off and landing. The runway is replaced by an aircraft track map during flying time. This map shows aircraft position relevant to the runway and surrounding beacons.

A new runway and beacon layout can be set up using options set by the player. This can include ground atmospheric conditions for that day.

To take off fly a holding pattern then return safely to the runway. Using the radar and radio beacon signals takes many hours of dedicated practice. My airfield is now pock-marked with craters and the control tower can't be seen for wreckage.

Simulator programs are a strange mixture of game and education. They have little novelty value (although it can be fun to switch the engines off at 2000 feet) and I suspect they have little relationship to actual flying.

If you are interested in flying a jumbo, this simulator is well up to the standard of those available for the Beeb. **AM**



Some have most alarming consequences but I'm not telling you what and which.

Gremlins are of three types: eggs, greebs and gremlins. Both eggs and greebs are stationary, but the eggs hatch into greebs and the greebs turn into gremlins. The gremlins are bouncing space invader like creatures which move around the city. To destroy any type the trooper must be alongside, possess a suitable weapon and press one of the keys immediately above the cursor keys (to aim the weapon in the appropriate direction).

Other commands at your disposal are S which gives a status report, E to eat, T to use a transport shuttle (for fast movement across parts of the city), 1-8 to control one of the eight troopers, and R to repair a damaged building. You can use U to unlock something (you'll have to figure out the use of this yourself). All text messages appear at the bottom of the screen with scores and statistics at the top.

Various catastrophes occur from time to time, such as screen-shaking cosmic storms. The adventure is played in real time though you do have a choice of nine difficulty levels and a short or long game.

It is an interesting and enjoyable romp which, played against the clock, provides a stimulating and challenging game. Professionally produced and well worth the price. **BC**

Mystery of the machine

Adventure Time Machine
Micro BBC B, Spectrum
Price: £9.95 Format Cassette
Supplier Digital Fantasia,
24 Norbreck Road, Norbreck,

Blackpool, Lancashire.

TIME Machine is one of a series of Mysterious Adventures, all currently available.

The cassette case came in a huge cardboard box with the publisher's name all over it. (I suspect most people would throw this away). There is also a booklet enclosed, which is a general guide to mysterious adventuring.

The program is text only, written in machine code, so screen updates are near instantaneous. The screen is divided in two. In the top half is a brief room description and list of objects, while the rest of the screen is a text window for commands. These follow the usual GET LAMP format, and if the program cannot understand it gives some indication why.



There are no specific instructions given in the packaging so you have to find out for yourself, by playing the game or reading Digital Fantasia's advertising, that the object is to rescue a professor by finding the three missing prisms which control his time machine.

The machine is the integral part of the adventure, and using it you must travel (somewhat erratically) through time to eventually find all three prisms.

The machine's behaviour is perhaps the most infuriating part of the whole game, as to get anywhere you must ENTER MACH, PUSH one of the two controls, and LEAVE MACH to see where you are. As far as I can see there is no logic to the machine's travel.

Time Machine could be described as a passive adventure, that is there are no dwarves to axe, or dragons to slice up. This is a puzzle-solving game, sometimes easy, sometimes hard. All of the puzzles are logical, which is the one criticism I have of this adventure. Everything is there for a purpose. I like this

in itself, but would welcome a few red herrings along the way, and so far I have found none. After two days I had found two of the prisms and was on the way to the third.

You will find no dreaded

spelling mistakes, or bugs in the adventure. It is very playable, including SAVE of position. There is nothing really wrong with any of it but at nearly £10 I believe that it is slightly overpriced. **MW**

On a wide knife's edge

Adventure The Knife of Kishtu
Micro Dragon 32 Price £7.95
Format Cassette Supplier

Future, 6 Arundel Close, Chatham, Kent.

The Knife of Kishtu is a role-playing adventure with a touch of Dungeons and Dragons character creation mixed in for good measure.

The game is played in and around an ice citadel and the usual commands GET (KNIFE), EAT (FOOD) are >

An ocean in which you cannot swim

Adventure Zork III Micro
Apple, Atari, Commodore 64, IM PC, TI Professional, CP/M systems Price £28.75
Format Disk Supplier

Infocom c/o Softsel, Central Way, Feltham, Middlesex.

ZORK III is the latest of the great Zork trilogies and like the others it is a text adventure with commands that are entered into the computer as sentences and allow you to do more than one thing at a time.

Unlike the others, Zork III is a fairly small world and experienced adventurers may not need to map it although a map is a great help in certain places.

Being a small world does mean that there are few puzzles to figure out, but those that are there are real meanies and this adventure will take just as long to solve as any other.

Experienced Zorkers expecting to get points for cracking difficult puzzles will be disappointed here. The points come from doing relatively easy things. There are only seven points to gain and you may have amassed a number of these and still not have realised what is happening.

The adventure starts at the bottom of an endless staircase and lying around is our old friend from past adventures the brass lamp, now looking slightly tarnished I shouldn't wonder.

Moving around you will find an Elven sword. Don't waste your breath trying to remove it from the rock it is embedded

in. The sword will come to you later when you need it.

As with all the Zork adventures you must read the room descriptions very carefully. They are well written and describe your surroundings graphically. They also hide lots of little clues so it is worth reading them two or three times.

Other places of interest in the Zork III tour are the Flatbed ocean. You cannot swim here but hang around for a while and something may happen. You will be able to swim in the lake.

Swimming west will take you to a place called the Scenic Vista. An important place this. Take your time and examine objects with care. Re-entering the lake and swimming on you will eventually come to a cave. What you did at Scenic Vista will pay dividends here.

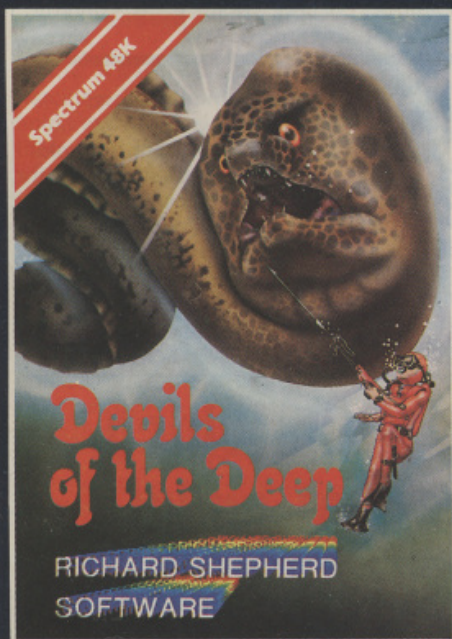
Shadow Land is where you first come across the mysterious cloaked figure. He will block your way and although fighting him may help your frustration it will help to solve the adventure.

Continuing through the game you will enter the museum, the jewel room and the royal puzzle, which incidentally is one of the toughest parts of Zork III and has only one solution as far as I can see.

I will not spoil it by telling you more, but you will meet the guardians of Zork and eventually the dungeon master. Good hunting. **RS**

"ADVENTURES INTO IMAGINATION"

CREDIT CARD HOTLINE
06286 63531 (24 HOURS)



Devils of the Deep

RICHARD SHEPHERD
SOFTWARE

Devils of the Deep

Discover the secrets of Atlantis as you wander amongst its ancient columns. Explore the 100 deadly sectors of its treacherous seabed! Beware of giant eels! £6.50



SUPER SPY

RICHARD SHEPHERD
SOFTWARE

Super Spy

Follow the trail of Dr. Death through complex puzzles, coded messages and 3-D mazes until you find his lair! But beware — even with your death-defying gadgets you may not live to tell the tale! £6.50



TRANSYLVANIAN TOWER

A spine chilling adventure ... enter via the dungeons ... navigate your way through 500 3-D rooms ... survive the swooping vampire bats ... reach the terrifying top ... confront and kill Count Kreepie, ridding the world of this Transylvanian Terror.

Can you survive the Top of The Tower? £6.50

RICHARD SHEPHERD
SOFTWARE

Selected titles available from
W. H. SMITH, BOOTS, MENZIES
AND ALL LEADING COMPUTER STORES

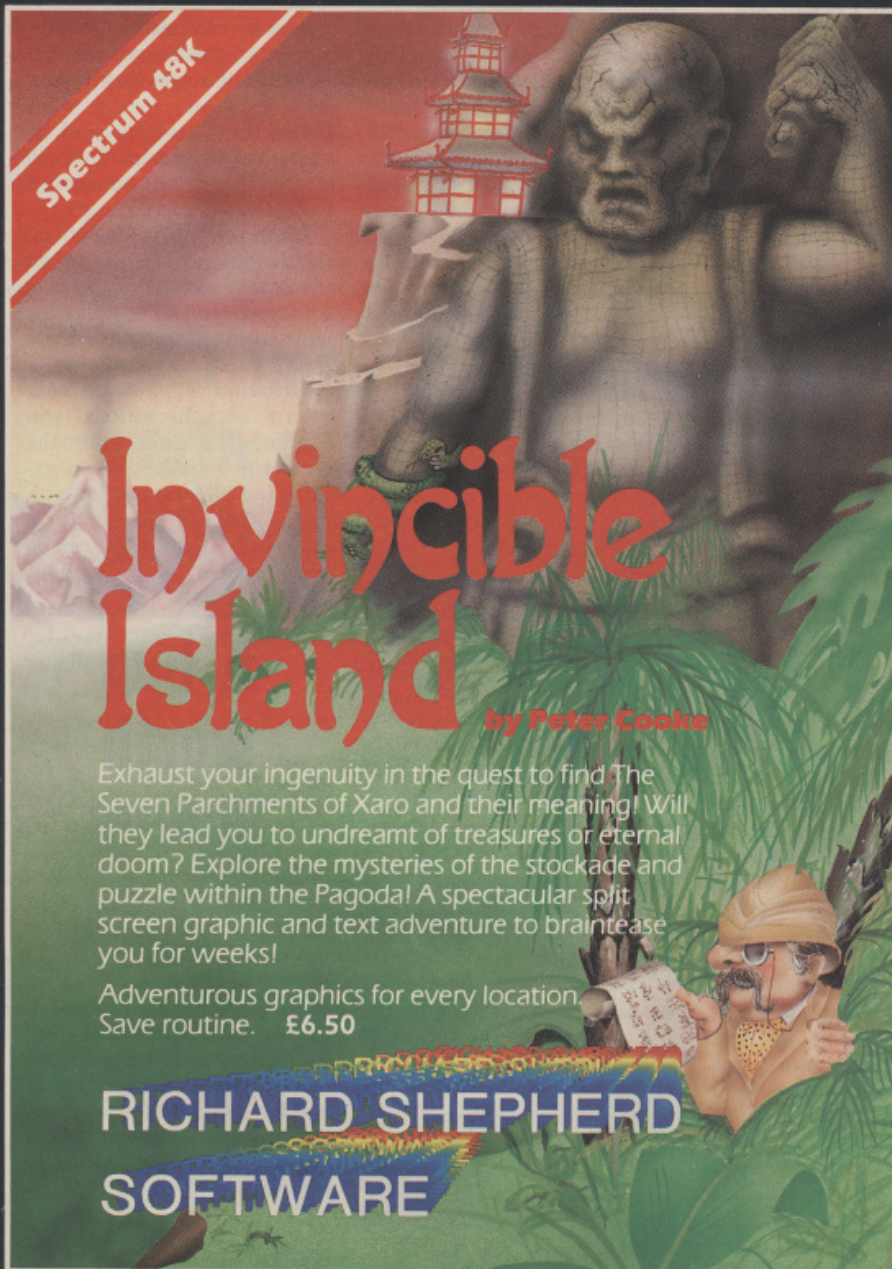
RICHARD SHEPHERD
SOFTWARE

ELM HOUSE, 23-25 ELMSHOT LANE, CIPPENHAM, SLOUGH, BERKSHIRE.

"ADVENTURES INTO IMAGINATION"

Selected titles available from
**W. H. SMITH, BOOTS, MENZIES
AND ALL LEADING COMPUTER STORES**

Spectrum 48K



Invincible Island

by Peter Cooke

Exhaust your ingenuity in the quest to find The Seven Parchments of Xaro and their meaning! Will they lead you to undreamt of treasures or eternal doom? Explore the mysteries of the stockade and puzzle within the Pagoda! A spectacular split screen graphic and text adventure to braintease you for weeks!

Adventurous graphics for every location.
Save routine. **£6.50**


**RICHARD SHEPHERD
SOFTWARE**

**CREDIT CARD HOTLINE
06286 63531 (24 HOURS)**

**RICHARD SHEPHERD
SOFTWARE**

ELM HOUSE, 23-25 ELMSHOTT LANE, CIPPENHAM, SLOUGH, BERKSHIRE.

**Spectrum 48K
Commodore 64**



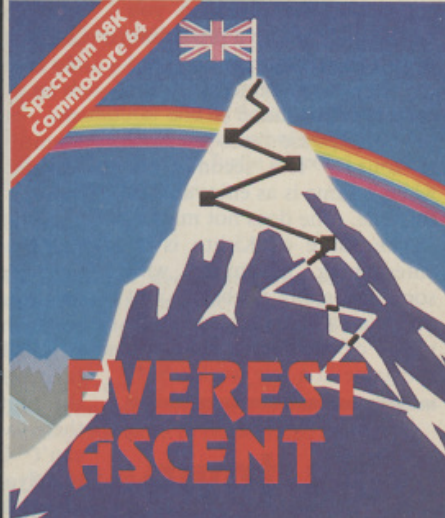
Ship of the Line

**RICHARD SHEPHERD
SOFTWARE**

Ship of the Line

Command a sailing ship, juggle your supplies, crew and firepower. Fearlessly battle your way up the admiralty ladder, bribe Sea Lords as necessary until you make First Sea Lord! **£6.50**

**Spectrum 48K
Commodore 64**



EVEREST ASCENT

**RICHARD SHEPHERD
SOFTWARE**

Everest Ascent

Conquer the world's highest peak in defiance of all the obstacles, man and nature can throw at you. Survive avalanches, cross bottomless crevasses, cope with wayward Sherpas — but don't run out of supplies! **£6.50**



◁ recognised in the adventure. The cassette comes with a comprehensive instruction booklet. The program has so far loaded over 20 times with not one I/O error.

Your objective in this adventure is to rescue Lovilia, the King's daughter, and return her safely home. To help you in your mission up to four characters with their own special abilities such as wisdom, can be created. An alternative is for four other people to play the game at one session, thus players could help each other when facing a problem.

The games vocabulary is quite large, but only a few commands are given to you before the game so a procedure of trial and error must be used to find and remember the correct commands.

The response times are slow at four to five seconds but when a game is as enjoyable as this one, time does not matter.

The Knife of Kishtu is an entertaining adventure with some intriguing problems, but on the whole any average player or beginner could finish the game in a few weeks. SM

This town is coming like a . . .

*Adventure Ghost Town Micro Spectrum 48K Price £5.95
Format Cassette Supplier
Virgin Games, 61-63
Portobello Rd, London.*

GHOST TOWN is as you'd imagine from the title an adventure set in a deserted burg somewhere in the old west.

Hybrid wins the accolades

*Adventure Atic Atac Micro Spectrum 48K Price £5.50
Format Cassette Supplier
Ultimate Play the Game, The Green, Ashby de la Zouche, Leicestershire.*

ULTIMATE already have a formidable reputation among arcade-game fans, but Atic Atac is bound to fix their name firmly in the minds of adventurers.

There have been a number of attempts to breed a hybrid arcade-adventure, most notably Crystal's Halls of the Things and Atic Atac is the first game to transcend this worthy ideal to give us something new and original. It has the feel of both its ancestors without their flaws.

Simply put, this is a magnificent game. In a haunted castle you must search the five

floors from attic to cellar for the three parts of the key you need to escape. On the way you'll meet thousands of nasties from witches and monks to flying pumpkins which you can zap in traditional arcade style.

Every room is displayed three-dimensionally from above and many are furnished lavishly. Transition from room to room is smooth and instant. The illusion of frenzied movement through a vast, labyrinthine building is utterly convincing.

To enhance the adventure side of the game there are more powerful enemies like Dracula and the mummy who must be fought with special objects found scattered throughout the castle.

There are different coloured

keys to be picked up to open coloured doors, and you must constantly replenish your food supply (graphically represented by a self-consuming roast chicken).

You can also choose to be a serf, knight or wizard, which affects the routes you travel and weapons you use.

When you finally die both an arcade-type score and an adventure success percentage are shown, so you can play the game to favour either of these goals.

With superb animation, easy control of your actions (you don't need six hands to use the controls), a huge area to explore and all wrapped up with a great sense of humour for a modest £5.50, this game can be recommended without reservation. DD

A bug worth finding

*Adventure Castle of Riddles Micro BBC Price £11.50
Format Cassette Supplier
Acornsoft, 4A Market Hill, Cambridge.*

WHILE dusting out one of the dungeons I trod on a cassette which one of the dwarfs must have dropped. On wiping off the bat's blood I found it to be Acornsoft's Castle of Riddles. A quick look round revealed no traps so I picked it up and flew (which is a clever trick if you know how to), to my micro. Kicking an inquisitive minor demon out of the way I loaded up and prepared to do battle.

The quest it appears is to enter the castle of a sorcerer which has been taken over by his evil rival and then return with the Ring of Power. I found myself outside the main gate of the castle with paths leading off round the back. Nothing ventured I went straight in — wrong! Picking myself up I returned and

When the game begins you find yourself, without the benefit of a single instruction to tell you why you're there or what you're looking for, in the main street. The only thing to do is explore, and luckily there is an on-screen display showing the street plan of the immediate area. You set off eagerly into the saloon or the hotel.

At this point disillusionment sets in. Most of the buildings have no graphical illustrations and many consist of only one room. All of them are strikingly barren and it soon becomes apparent that most of the things described are only there to set the scene, since you can't look at them more closely, examine them, or affect them in any way.

The words "You can't" become all too familiar, since they are the response to all but the most obvious commands.

The problems to overcome are similarly straightforward, so once the requisite mundane objects have been collected it's a short trek across the desert to the gold mine, which inevitably turns out to be your goal.

By far the best things about Ghost Town are the Graphics. The street plan is useful and clear, the pictures of rooms (all

two of them) are very attractively drawn, and the maze which forms the major obstacle to finding gold is convincingly depicted.

The program defines its own character set which is clearly designed and an improvement on Spectrum's. But the plot and descriptions are so ordinary and the choice of actions so limited that Ghost Town would probably be boring for the experienced adventurer and frustrating for the novice. Overall, not a bad game, but certainly nothing special. DD



finally entered the main courtyard where surprise, surprise the Ring is easily found. I grabbed it — wrong!

Needless to say this is another great adventure from the Acornsoft stable. It has good atmosphere and a wealth of traps.

The game has the additional incentive of a large prize for the first fearless hero to solve the final mystery and I assume it was for this reason that the many mazes have been included. Personally I hate mazes but as these have novel solutions I will forgive them. As the game has a continuous story line I found it more exciting than some of the earlier adventures from Acorn

and some of the traps have a nice touch of demonic humour.

For those sneaky individuals who can't resist the impulse to cheat I'm afraid Acorn's chief wizard has made this game almost "bomb, proof". Being pretty sneaky myself I've spent some time trying to wrest the secrets from the code and I'm not winning.

Needless to say I, like the Wishing Well bucket, am now stuck in the mud beneath the castle. I only hope some other adventurer comes along soon to help get me out as I've a nasty suspicion my lamp is going dim and that damn giant spider is still around here somewhere. **AM**

First impressions worth overcoming

Adventure Invincible Island
Micro Spectrum 48K Price
£5.95 Format Cassette

Supplier Richard Shepherd
Software, Elm House, 23-25
Elmshott Lane, Cippenham,
Slough, Berks.

MY FIRST impression of *Invincible Island* was that it left a lot to be desired.

The tape took an interminably long time to load and the on-screen introduction was formatted slowly with an annoying beep accompanying the arrival of each letter. But I have to admit that if I had left it at that I might never have enjoyed this wonderfully compact adventure.

The screen is split into two distinct areas. The top third or so is for graphics where a different picture is presented for each location. This means that

there is little difficulty involved in determining your current whereabouts during the adventure.

The remainder of the screen is the scrolling-text window. Unlike other adventures of this type there is no separate command area so your instructions scroll up the screen along with all the normal information.

Multiple commands are catered for, and can be quite a timesaver. The package includes the usual SAVE and LOAD facilities.

Basically, the scenario revolves around a letter you have received informing you that there is a large amount of treasure on this island to be had. But first you must find the seven parchments of Xaro. The parchments can be examined on-screen and reveal a coded message as to the whereabouts of the treasure. Your aim is to depart from the island with the treasure, and your life!

This program is an ideal, frustrating introduction for first-time adventurers and poses some interesting problems for the more experienced. It is, to my mind, good value for money and should provide hours of enjoyment for all.

All that remains is a final word of warning: don't try to sail away in the boat until you know where to go. **SC** □



The best books for the BBC Computer

functional forth
for the BBC computer
Understand your computer through Forth



Functional Forth

Boris Allan develops routines in Acorn soft Forth to demonstrate a) how easy it is to write in Forth and b) that the programs are fast enough to dispense with the need for machine code.

ISBN: 0 946408 04 1

Programming for Education

The book, written by teachers, is aimed at showing younger children how the various features of the BBC Computer can be used to their best advantage. ISBN: 0 946408 10 6



graphic art
for the BBC computer
Using graphics and art



Graphic Art

The graphics in this book match the style and sophistication of the BBC computer and its Basic language. Boris Allan shows what can be achieved with Turtle graphics.

ISBN: 946408 08 4

DIY Robots and Sensors

Make your own joystick, robot, eye or whatever you like. The book gives you step-by-step instructions on how to construct a wealth of gadgetry for use with your BBC computer (Pub. 28th October). ISBN: 946408 13 0

Look out for the Sunshine range in W.H. Smith's, Boots, John Menzies, other leading retail chains and through our national network of book shops and specialist stores.

Dealer Enquires: 01-437 4343

Please send me

☐ Functional Forth
at £5.95 each

☐ Graphic Art for BBC
at £5.95 each

☐ Programming for Education
at £5.95 each

☐ DIY Robots & Sensors
at £6.95 each

I enclose cheque/postal order for £_____ made payable to: Sunshine Books: 12/13 Little Newport St., London WC2R 3LD

Name _____

Address _____

Signature _____

Or telephone Access Mastercard on 01-437 4343

How to write your own adventures

Andrew Pepper describes some of the techniques programmers use when writing adventures

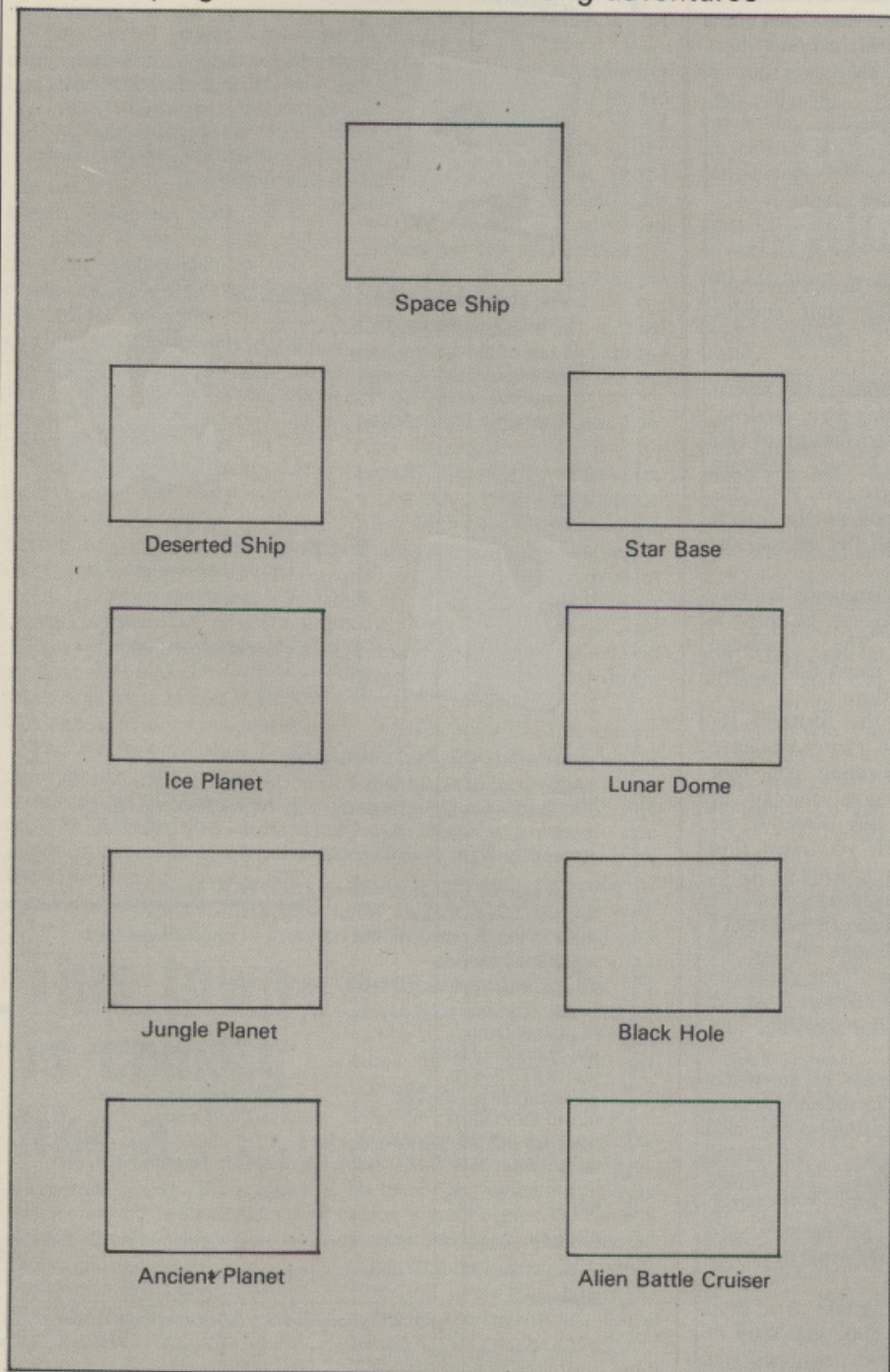


Figure 1: typical overall map of a space-type adventure

ADVENTURE GAMES, or Role Playing Games, have been available on mainframe computers for many years, usually available only to a select few.

Crowther and Woods' *Adventure* is probably the most well-known fixed adventure (ie set in a fixed map). *StarTrek*, developed by Hewlett-Packard, is the best known random adventure with each map different, although developed within fixed constraints.

Recently, in the past three to four years, personal computers have begun to have standard memories of reasonable size (16-64K). This has allowed adventure programs to be written for the personal computer, producing a new generation of adventure games and, because of the large market, setting new standards.

Adventure programs are generally quite large because of the number of messages associated with them. This does not mean that they are difficult to write: I normally would expect to produce an adventure game within a week. Most of the week being spent in sheer typing. Adventure programming, like writing, is 10% inspiration, 90% perspiration.

You must first of all decide what kind of adventure you wish to write. This is where inspiration plays its major part. Normally, as far as I am concerned, I have the idea then write the adventure. Sitting down and trying to think of a subject does not seem to work for me. However, when choosing your scene there are guidelines you should follow.

Adventure programs are generally used as an escape. When playing one you can imagine yourself in command of a spaceship, travelling the universe at warp speeds, or a mighty warrior, exploring a maze of magical passages in search of treasures.

You should remember that the program is an escape from reality. People are more likely to enjoy a program which has Rlueke, the space knight, exploring the cosmos than, say a program which involves, Eric Groat exploring the Northern line. Adventures should be exciting, dangerous and unpredictable.

Dreaming

From this premise the range of adventure subjects should be limitless: "Any dream you want to have". In practice adventure programs are very commonly set either in space or in a cave system such as *StarTrek* and *Adventure*.

It is an advantage to know something about the subject you are writing a program about. Not that you have fought a dragon or flown the space shuttle, but if you have a passion for science fiction then a space adventure of some kind might be a good one to start with. Whatever the case research the subject.

Suppose you have decided to write a space adventure of some kind (you may not know what kind yet). If people are going to be able to believe that they really are flying a spaceship then you need to build up a picture of what the spaceship is like: how is

it propelled? Is hibernation required for flight? How large is it? What instrumentation does it have? All these questions (and more) should have an answer.

As well as specific questions it is important to read around the subject; you do not want to make a major technical gaffe such as arming the spaceship with machine guns. That is why it is an advantage to write about something in which you are already interested.

Killing

There are two main types of adventure, fixed and random. Both have their own characteristics. Fixed adventures are so called because they have a fixed map. The rooms in the adventure are always in the same place and have the same contents. Adversaries who are met will be killed in the same way. The enjoyment comes because there are usually a large number of rooms, typically around 100, which take time to explore. There also are many problems that have to be solved to get from one stage to the next. These problems are usually designed to drive people mad trying to solve them.

Random adventures are not completely random. They have a fixed underlying structure. *Star Trek* is a good example. The basic idea is that you are captain of the Enterprise roaming the galaxy seeking and destroying Klingons.

The number of Klingons, stars and starbases in each game is random, as is the positions of the Klingons and the amount of energy required to kill them. On the other hand there is a fixed number of quadrants in each game (normally 64 or 100) containing a fixed number of sectors (64 or 100). Klingons are always bad news, you never play a game in which they don't try and shoot at you. The Enterprise always has the same characteristics.

Both adventure types have advantages and disadvantages. Fixed adventures are a one-off game. Once you have explored the game and found all the nooks and crannies that's it. Bear in mind that, if you are writing adventures to play yourself, you will know all the answers when you are playing, making the whole thing quite boring.

Random adventures can be played endlessly. The only adventures I play which I wrote are random. They are, in general, harder to write. They require careful balancing of several parameters to ensure that each game is interesting to play. Who would want to play *Star Trek* if there were only two Klingons a game?

As this is intended to be an introduction to the techniques of adventure programming I will stick to the fixed-map adventures. But I will describe how random parameters in a fixed-map adventure can give the best of both worlds.

In principle the entire map should be drawn and all the messages defined before a single byte of program is written. In practise drawing the map in this way is very tedious.

I usually work with the map at two levels:

the overall picture of the game and the individual rooms.

In a fixed adventure there are a number of areas or sections. In a space adventure, for example, it is convenient to have each planet as an individual section. Each section is, in turn, divided into rooms. The term room has more than a literal sense. It could also be a cave, corridor or planet.

The total number of rooms is fixed by the amount of memory you have available and how efficiently that memory is used. I normally have about 100 rooms in my 32K NewBrain, which uses ANSI standard Basic. If you have only a 16K machine or want to draw pictures of each location then you will probably have to think about using machine code to get the efficiency of storage possible at that level.

I usually plan the overall map before starting to write the program. By this I mean that I know the types of incidents and situations I envisage occurring in the game but I do not know have a precise description of the rooms involved.

A typical overall map of a space adventure is shown in figure 1. Obviously I do not draw each map out so neatly but I do keep it on one piece of paper. If possible you should work on an A3 sheet. But any large sheet will do.

The overall plan should indicate the name of each area. Notice that at this stage I have divided the adventure into around 10 sections. This gives about 10 rooms per section.

You should decide what objects are to exist in the adventure, and monsters ▷

| Monster | Found | Dealt With |
|----------------------|----------------------|---|
| Rat | Deserted Ship | Ice Axe or Space Gun. |
| Giant Alien Android | Alien Battle Cruiser | Destroyed by Plarthedon which also gets destroyed at same time. Space Gun - no effect. |
| Armoured Ice Monster | Ice planet | Space gun at feet (thin ice notice gives clue). Ice axe only found after killing Monster. |
| Plarthedon | Jungle Planet | Fed with Space Cookie (Plarthedon described as hungry when first met). Plarthedon will follow you only to alien battle cruiser. |
| Guardian | Star Base | Show Earth Badge which proves from Earth. Allows you onto base. Else must leave. |
| Objects | Found | Effects |
| Space Gun | Space Ship | Melts ice, kills small creatures without armour. |
| Android arm | Deserted Ship | Open emergency air lock on Star base without your arm being chopped off! |
| Earth Badge | Star Base | Used by Nav. Computer as indication that owner from Earth. |
| Ice axe | Ice planet | Used on Jungle Planet to make handholds to climb tree. Or used as weapon against small enemies. |
| Space cookie | Star Base | Bought in Star Base Refectory. Can be eaten (by owner) or fed to Giant Plarthedon met on jungle planet to make friendly. |
| Stellar Coin | Lunar Base | Required to buy Space Cookie. |
| Nav. Computer | Deserted Ship | Required to navigate to Ancient Planet. |
| Star Map | Black Hole | Co-ordinates of Ancient Planet (different each run to stop cheats) required to navigate to Ancient Planet. |
| Zero gravity machine | Alien Battle Cruiser | When placed on object makes weight zero. Normally no effect on anything but gives access to ancient planets' cave system. |

Figure 2: objects for the adventure, plus monsters to meet

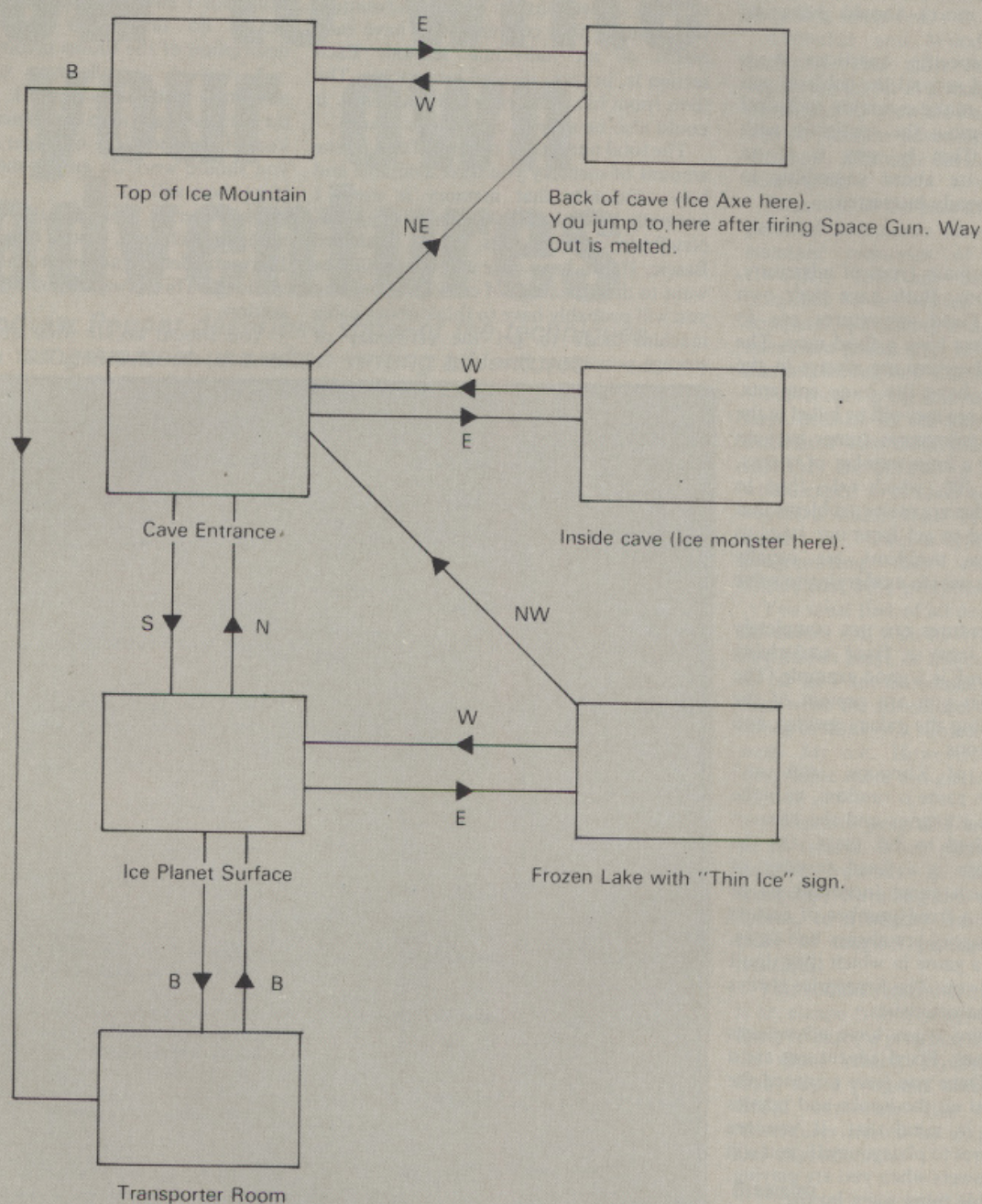


Figure 3: detailed description of the Ice Planet — a section of the overall map shown in figure 1.

◁ you are to meet. You should arrange that all the objects are necessary to the game. You should also note down any effects the objects have and what is required to deal with each monster. I say deal with as you may not necessarily kill them. You may, for example, have a monster which you can tame. Figure 2 shows an example of the type of information you should write down.

Next you should start work on detailed, room-by-room descriptions. There is no need to go through the entire map at this stage, although you can if you want to. These detailed descriptions should be

drawn on one piece of paper for each section.

Icing up

I don't usually bother to go down to a word-by-word description of each room. But I do give each room a unique name. At this point I decide what objects are going to be in what room. Objects are usually of three types: ones you can get, ones you can't get and ones you must fight. You should place the objects in logical places; if you land on a primeval planet you wouldn't expect to find a spacesuit there, although you might find a stone axe.

The connecting lines between rooms, indicating the route to be taken to get from one room to another can be drawn now. You could keep it simple and allow between four (North, East, South and West) and 10 (N, E, S, W, NE, NW, SE, SW, up and down) routes. Figure 3 shows the detailed description of the Ice Planet; a section of the overall map shown in figure 1.

After doing all this you should have an overall map of the adventure, a list of objects and monsters and their effects, some notes on how the monsters are dealt with and a partial detailed map of the adventure.



Doric Computer Services

Present

The Oracle's Oracle's Cave

AN AMAZING NEW
ADVENTURE GAME
WITH ANIMATED
GRAPHICS
FEATURING:-

- A completely new cave layout, monster position and event sequence generated for every game.
- A time limit of 5 'days' on every adventure.
- Continuously displayed high resolution graphics and text.
- All monsters, articles and locations depicted to a level of detail that pushes SPECTRUM graphics to the limit.

"The closest yet to a true
animated graphic adventure...
...excellent value for money."
POPULAR COMPUTING WEEKLY.



FOR THE
48K SPECTRUM

AVAILABLE FROM W.H. SMITH, BOOKS AND OTHER
LEADING RETAILERS OR DIRECT FROM:-
DORIC COMPUTER SERVICES
3 THE OASIS, GLENFIELD
LEICESTER LE3 8QS.
£7.95
(inc. VAT)
Postage & Packing
free.

YOUR ADVENTURES

This month's selection concentrates on the Sinclair machines — offering the first part of a new adventure from Keith Parrock and an auto-repeat facility for the ZX81. Keith's Castaway adventure involves collecting 25 items to refit your boat, while avoiding traps and solving problems. The program responds to 32 words — including what becomes a deeply felt need, PRAY.

J. Gallagher has a different solution to another type of problem — the lack of an auto-repeat facility on the ZX81. His program gives you just that. Next month we'll be featuring the second and final part of Castaway, along with tips for other micros — so keep on sending in your adventures and any program routines.

Send us your adventure listings — modules which readers can incorporate into their own games, short adventures and useful programming routines are all welcome. Please send us a printout and cassette along with a general description of the program and details of how it is constructed and can be used. If you want us to return your program, enclose a stamped, addressed envelope. If you have any queries on the listings, write to the appropriate author, Your Adventures, Micro Adventurer, 12-13 Little Newport St, London WC2R 3LD

Auto-repeating on the ZX81

An auto repeat facility for the ZX81 from J. Gallagher in Kingsbury, London

ONE OF THE disadvantages of any sort of input on the ZX81 is the computer's lack of an auto repeat facility on its keys.

This program gives you just that. It works by intercepting the display interrupt (called 50 times a second) using interrupt mode 2. The routine is held at 7F20 onwards.

If a key is held down for a short while (adjust this by poking 32566 with a value from one to 255) then the routine continuously sets the debounce system variable to 0, making the operating system think it has received a new keypress.

Enter the hex loader followed by the hex code in the disassembled listing. Delete lines 10-90 and then enter the second program. Run to save. To call the routine Randomise User 32537.

```

7F01 POP DE          D1
7F02 LD BC,7F19      01 19 7F
7F05 PUSH BC         C5
7F06 PUSH DE         D5
7F07 LD A,1E         3E 1E
7F09 LD I,A          ED 47
7F0B LD A,DD         3E DD
7F0D LD B,F7         06 F7
7F0F DJNZ -2         10 FE
7F11 LD BC,1901      01 01 19
7F14 IM 1            ED 56
7F16 JP 38           C3 38 00
7F19 PUSH AF         F5
7F1A LD A,7E         3E 7E
7F1C LD I,A          ED 47
7F1E IM 2            ED 5E
7F20 LD A,(4025)      3A 25 40
7F23 CP FF           FE FF
7F25 JR NZ,7         20 07
7F27 LD A,00         3E 00
7F29 LD (4021),A      32 21 40
7F2C POP AF          F1
7F2D RET             C9
7F2E LD A,(4021)      3A 21 40
7F31 INC A           3C
7F32 LD (4021),A      32 21 40
7F35 CP 0A           FE 0A
7F37 JR NC,2         30 02
7F39 POP AF          F1
7F3A RET             C9
7F3B LD A,00         3E 00
7F3D LD (4027),A      32 27 40
7F40 POP AF          F1
7F41 RET             C9
7F42 NOP             00

```

HEX-LOADER

1 REMAT LEAST 68 DOTS....

```

.....
10 POKE 16514,1
20 POKE 16515,127
30 LET A=16516
40 LET A$=""
50 IF A$="" THEN INPUT A$
60 POKE A,16+CODE A$+CODE A$(2)
)-476
70 LET A=A+1
80 LET A$=A$(3 TO )
90 GOTO 50
5 SAVE "REPEAT"
10 FOR A=0 TO 67
20 POKE 32511+A,PEEK (16514+A)
30 NEXT A
40 POKE 16389,126
50 NEW

```

TO START ROUTINE TYPE- RAND USR
32537

Sinclair castaway

A ZX Spectrum game from Keith Parrock in Middlesex

In Castaway you are shipwrecked on a South Pacific island. Scattered around this island are 25 items needed to refit your wrecked boat.

On the island there are 105 locations, split into eight geographical sections.

The program understands and will respond to the following words: TAKE DROP KILL INVENTORY SCORE CUT DIVE NORTH SEARCH RUN UNLOCK DIG EAT DRINK RUB SOUTH JUMP PUSH HIT SHOUT BREAK PRAY READ EAST EXAMINE REVEAL UP DOWN HELP PULL CLIMB WEST.

There are many traps and problems to solve and an interesting ending.

Part completed adventures can be saved on tape and restored later.

Keith has drawn a fully detailed map of the adventure, which can be obtained by sending a stamped addressed envelope to this magazine (second part next month).

```

1 REM CASTAWAY
2 REM INITIALISATION
3 REM INITIALISATION
4 GO SUB 9800
5 LET f=1999: LET fs=1999: L
ET fs=9800: LET os=9800
6 LET oz=9800: LET vs=7000: L
ET cs=7100
7 LET vr=1460: LET ct=1997: L
ET dr=1601
9 LET st=125: LET cw=7: LET z
=0: LET sc=0: LET res=0: LET rr=
9700
10 BORDER 7: PAPER 7: INK 0: C
LS
120 POKE 23609,60
30 LET l=1
35 LET mov=0
40 GO SUB 900
45 REM LOCATION OBJECT SETUP
50 POKE 23692,255: RESTORE l+l
s: READ m$: PRINT "You find your
self ";m$: LET q$="Nearby there
is": GO SUB 2000
60 PRINT
70 GO SUB 1000
90 GO SUB vr+vn*20
100 IF f=0 THEN GO TO 60
110 PRINT: GO TO 50
900 RESTORE os: READ oc: DIM o(
oc)
910 FOR i=1 TO oc: READ o(i): N
EXT i
920 RESTORE vs: READ vc
928 REM BEACH JUNGLE TEMPLE
929 REM AND CAVES TEXT
930 LET dd=0: LET be=0: LET lu=
0: LET gu=0: LET la=0: LET e$="o
n a stretch of beach, some way
from your wreckage. The last
few remaining possessions are onl
y just in view...": LET p$="i
n a jungle. Lush plants and tre
es tower over you. The vegetation
is so dense here as to make pro
gress very slow...": LET k$="i
n an inner chamber of the temp
le. There is no light save from
your flare...": LET c$="in caves
at sea level. You splash thro
ugh isolated pools of water, w
hile still more drops from the
roof onto your head...": LET s$
="in part of the caves where soli
d rock surrounds you..."
940 RETURN
999 REM COMMAND WORD ROUTINE
1000 INPUT "Now what? ";s$: IF
LEN s$=0 THEN GO TO 1000
1001 IF s$="save" THEN GO TO 999
1005 IF s$="quit" THEN GO TO 999
1006 IF s$="help" THEN GO TO 999
1007 IF s$="look" OR s$="view" T
HEN GO TO 50

```

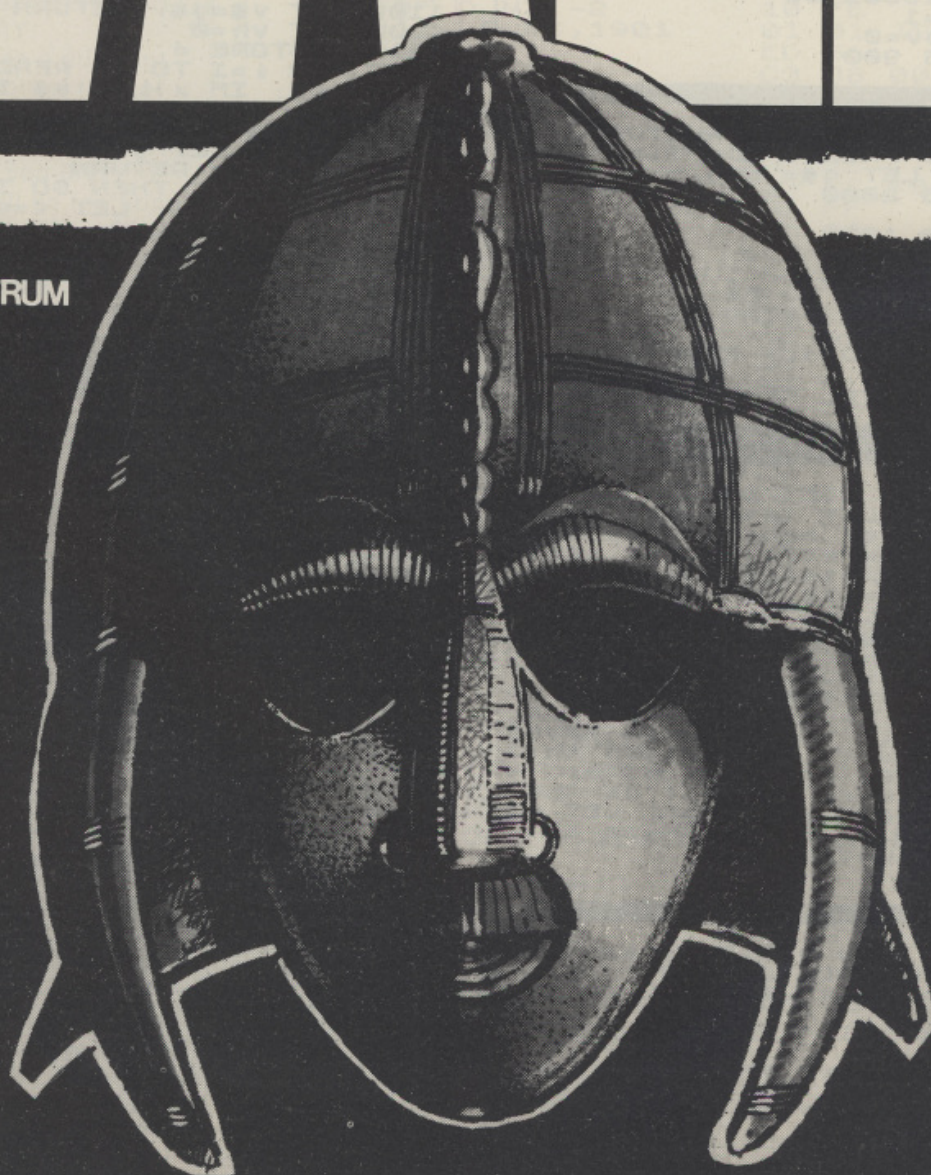
```

1008 IF s$="climb" OR s$="run" O
R s$="shout" OR s$="pull" OR s$=
"search" OR s$="hit" THEN GO TO
9920
1009 LET mov=mov+1
1010 LET a$="": LET n$=""
1020 LET x=0: FOR i=1 TO LEN s$
1030 LET i$=s$(i TO i)
1050 IF i$="" AND x=1 THEN LET
i=LEN s$: GO TO 1080
1051 IF i$="" THEN LET x=1: GO
TO 1080
1060 IF x=0 THEN LET a$=a$+i$
1070 IF x=1 THEN LET n$=n$+i$
1080 NEXT i: LET s$=a$: LET c=vc
: LET d=vs+1: GO SUB 1200
1090 IF vn=0 THEN PRINT "Sorry,
but I don't understand": a$: GO T
O 1000
1100 LET v$=y$: RETURN
1200 LET vn=0
1210 RESTORE d
1220 FOR i=1 TO c: READ m$: LET
x=LEN m$: IF x>LEN w$ THEN LET x
=LEN w$
1240 IF w$(TO x)=m$(TO x) THEN
LET vn=i: LET y$=m$: LET i=c
1260 NEXT i: RETURN
1300 IF n$="" THEN GO TO 1311
1301 LET w$=n$: LET c=oc: LET d=
os+1: GO SUB 1200: IF vn=0 THEN
GO TO 1311
1310 GO TO tr
1311 PRINT "I'm not sure what yo
u mean": GO TO fa
1460 REM HERE ORDERED LOCATIONS
1461 REM MUST BE ORDERED
1462 REM LOCATIONS
1500 LET d=1: GO TO dr
1520 LET d=2: GO TO dr
1540 LET d=3: GO TO dr
1560 LET d=4: GO TO dr
1580 LET d=5: GO TO dr
1600 LET d=6
1601 PRINT: RESTORE l+ls: READ
m$: FOR i=1 TO d: READ nl: NEXT
i
1602 IF nl=0 THEN PRINT "You can
not go that way": GO TO fa
1603 RESTORE nl+ls: READ m$,s,s,
s,s,s,s
1604 READ s
1605 GO SUB cs+s: IF f=0 THEN GO
TO 1611
1610 IF o(1)=0 THEN LET l=nl: GO
TO tr
1611 PRINT "Something stops you
from proceeding": GO TO f
a
1619 REM TAKE ROUTINE
1620 GO SUB 1300: IF f=0 THEN RE
TURN
1621 IF o(vn)<>l THEN PRINT "It'
s not here": GO TO fa
1622 RESTORE oz+vn: READ s: IF s
<0 THEN GO TO ct
1624 READ s
1625 READ s
1626 GO SUB cs+s: IF f=0 THEN GO
TO ct
1630 IF cw<>0 THEN LET cw=cw-1:
LET o(vn)=0: PRINT "Okay, you ha

```


WALL

48K SPECTRUM



VALHALLA

**MOVI
SOFT**®



LEGEND

VALHALLA is supplied on a 48K Spectrum program cassette, with VALHALLA player manual and presentation box. As VALHALLA uses the full 48K RAM, microdrives and full-size printers are not supported. ZX printer optional.

VALHALLA is normally available from stock, and orders are despatched by return. If, for any reason we are unable to fulfil your order within 14 days of receipt, we will notify you.

VALHALLA cassettes carry an unconditional lifetime replacement guarantee.

TO ORDER: (UK Orders Only) Simply complete the coupon, and FREEPOST with your cheque/P.O. made payable to LEGEND (UK Mail Order).

Credit Card Orders: By phone 9-5.30 Mon to Fri, stating name and address, Card No. and item(s) required.

RETAILERS: Please contact your regular distributor or LEGEND (Trade Distribution) at the address below.

LEGEND (UK Mail Order) FREEPOST
1 Milton Road, Cambridge CB4 1UY
(0223) 312453

MOVISOFT OPERATING SYSTEM UNDER LICENCE.

Post to:- LEGEND (UK Mail Order) FREEPOST
1 Milton Road, Cambridge CB4 1UY

Please send me.....Copy/copies of
VALHALLA for the 48K Spectrum.

I enclose cheque/P.O. for £.....
(£14.95 each incl. VAT and P&P).



Or I wish to pay by Access/Barclaycard/Visa
Card No.....

Please print name and address

Name.....

Address.....

.....
Credit Card holder's signature.....

MA 1


```
ve it": RETURN
1631 PRINT "You are carrying too
much": GO TO fa
```

1639 REM DROP ROUTINE

```
1640 GO SUB 1300: IF f=0 THEN RE
TURN
1641 IF o(vn)<>0 THEN PRINT "You
are not carrying it": GO TO fa
1642 RESTORE oz+vn: READ s
1643 PRINT "Okay, it's dropped":
LET o(vn)=1: IF l=1 AND s<>0 TH
EN LET sc=sc+s: LET o(vn)=-1: PR
INT "That's a piece of equipmen
t towards your refit!"
1644 LET cw=cw+1: IF sc=250 THEN
GO TO 9980
1645 RETURN
```

1659 REM FIGHTING MONSTERS KILL ROUTINE

```
1660 GO SUB 1300: IF f=0 THEN RE
TURN
1661 LET t$=y$: LET mn=vn: RESTO
RE oz+vn: READ s,ms: IF s>=0 THE
N GO TO ct
1662 LET s=0: INPUT "By what mea
ns? ";w$: IF w$="" THEN GO TO 16
70
1663 LET c=oc: LET d=os+1: GO SU
B 1200: IF vn=0 THEN GO TO 1662
1664 IF o(vn)<>0 THEN GO TO 1662
1665 RESTORE oz+vn: READ s,s: IF
s=0 THEN GO TO 1662
1670 PRINT "LET s=s+st: IF ms>s
+RND*20 THEN GO TO 1679
1671 IF s>ms+RND*15 THEN GO TO 1
678
1672 PRINT "The ";t$;" fights ba
ck." "You begin to feel weaker..
"
1673 LET st=st-RND*5: GO TO tr
1678 PRINT "You have killed the
";t$; PRINT "The body vanishes f
rom sight!": LET o(mn)=-1: GO TO
tr
1679 PRINT "The ";t$;" has kille
d you!": GO TO rr
1680 LET l1=l: LET l=0: LET q$="
You are carrying:": GO SUB 2000:
LET l=l1: GO TO tr
```

1699 REM SCORE AND MOVE COUNT

```
1700 PRINT "Score ";sc;" in ";mo
v;" moves": GO TO fa
```

1719 REM SUB ROUTINE

```
1720 GO SUB 1300: IF f=0 THEN RE
TURN
1721 IF vn<>19 OR o(2)<>0 THEN G
O TO ct
1722 LET o(14)=o(vn): LET o(vn)=
-1: PRINT "Sail canvas falls fr
om the tree": RETURN
```

1739 REM DIVE ROUTINE

```
1740 IF l<>10 AND l<>58 THEN GO
TO ct
1741 IF l=10 AND o(3)<>0 THEN PR
INT "You have not the equipment
with you for diving. You cannot
hold your breath and you drown!
": GO TO rr
1742 IF l=10 THEN LET l=58: GO T
O tr
1743 LET l=10: GO TO tr
```

1759 REM UNLOCK ROUTINE

```
1760 GO SUB 1300: IF f=0 THEN RE
TURN
1761 IF l=13 AND o(4)=0 THEN LET
o(20)=-1: LET o(21)=l: LET lu=1
: RETURN
1764 GO TO ct
```

1779 REM DIG ROUTINE

```
1780 IF o(16)<>0 OR l<4 OR l>9 T
HEN GO TO ct
1781 PRINT "You have found ";
1782 IF l=9 AND o(4)=-1 THEN LET
o(4)=l: PRINT "something" "inte
resting!": GO TO tr
1783 PRINT "nothing at all": GO
TO tr
```

1799 REM EAT ROUTINE

```
1800 GO SUB 1300: IF f=0 THEN RE
TURN
1801 RESTORE oz+vn: READ s,s1,s1
1802 IF s<0 THEN GO TO ct
1803 GO SUB cs+s1: IF f=0 THEN G
O TO ct
1804 PRINT "Thanks. I was gettin
g peckish": LET o(vn)=-1: RETURN
```

1819 REM RUE ROUTINE

```
1820 GO SUB 1300: IF f=0 THEN RE
TURN
1821 IF l<>48 OR vn<>7 THEN GO T
O 1830
1822 PRINT "A bridge appears be
fore your eyes across the cha
sm": LET o(15)=l: LET be=1: GO T
O tr
1830 PRINT "Nothing happens": GO
TO fa
```

1839 REM JUMP ROUTINE

```
1840 IF l=48 OR l=50 THEN PRINT
" Oh dear, the fall has broken
your neck. It was no time to t
ryout your new wings": GO TO rr
1841 GO TO 1830
```

1859 REM EATING ROUTINE

```
1860 GO SUB 1300: IF f=0 THEN RE
TURN
1861 IF vn<>17 THEN GO TO ct
1862 PRINT "Delicious! But I wo
uld really prefer Captain Morg
ans": LET o(18)=o(vn): LET o(vn)
=-1: RETURN
```

1880 REM PUSH ROUTINE

```
1881 IF l<>25 THEN PRINT "Nothin
g moves": GO TO fa
1882 IF l=25 AND o(23)=l THEN PR
INT "The door is already open":
GO TO fa
1883 IF l=25 THEN LET o(22)=-1:
LET o(23)=l: LET gu=1: PRINT "...
The heavy door slowly opens": GO
TO tr
```

1899 REM BREAK ROUTINE

```
1900 IF o(57)=0 AND l<>68 THEN P
RINT "Vandalism is the lowest fo
rm of animal life": GO TO fa
1901 IF o(57)<>0 THEN GO TO ct
1902 IF l=68 AND o(57)=0 THEN LE
T o(46)=-1: LET o(50)=l: LET o(4
9)=l: LET o(47)=l: LET la=1: PRI
NT "The lock is broken and fall
s apart": RETURN
```

1919 REM PRAY ROUTINE

```
1920 IF l<>71 THEN PRINT "This i
s not the place for it": GO TO f
a
1921 IF l=71 AND dd=0 THEN LET o
(48)=l: LET dd=1: PRINT "Your p
ayers have been answered": GO TO
tr
1922 IF l=71 AND dd=1 THEN GO TO
ct
```

1939 REM READ ROUTINE

MIKRO-GEN

presents
TWO
great games
from Saturn
Developments



The chart-hitting

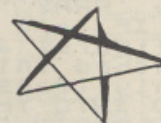
Mad Martha



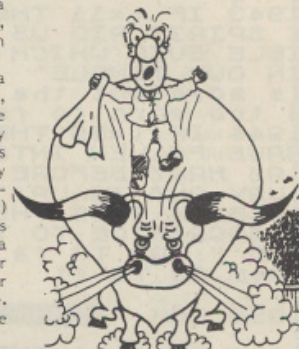
Poor little Henry is the hen-pecked hero of this domestic tale. One night Henry can take no more. He steals his wages from his wife's purse, and sneaks out of the house being careful not to wake the baby or trip over the cat, and heads for the bright lights to have some fun. Trouble is he runs out of money. His only way to raise some cash is to gamble his few remaining pounds on the spinning wheel of the roulette table. Just as Henry is getting in to his evening at the tables his wife - Mad Martha - has noticed his absence. Realising Henry has absconded with the housekeeping she sets out after him with an axe. Guess what part you play in this happy tale? That's right, you're Henry. Watch out for that axe!

And now -

Mad Martha II



Time for the annual holiday and Martha decides to visit her half-cousin Manuel, who is a waiter in a plush hotel in Barcelona. One afternoon, Martha sets out on a bus tour with her son, young Arbuthnot, leaving orders for Manuel to keep an eye on Henry. Unbeknown to Martha, crafty Henry has a Spanish pen-pal, and has planned a secret rendezvous. Henry leaves the hotel, brimming with enthusiasm and Manuel (who is totally wacky!) is hot on his trail. The adventure takes us through the thrills and spills of a madcap chase, taking in amongst other delights, a bull fight in which poor Henry is forced to play the leading role. Guaranteed laughs and fun for all the family!



*** FOR 48K SPECTRUM ONLY £6.95** Post & Packing 40p *****

A game to invest in... funny, genuinely original, and the graphics are great... hit the key to begin, the Spectrum plays a real Hollywood-style movie theme tune, and the hunt is on!
Personal Computer News

Marvellous adventure, really dotty... a refreshing change from some of the doomladen programs encountered nowadays... a game where you won't get to the next stage without solving the present conundrum.
Popular Computing Weekly

RING FOR DETAILS OF OTHER GREAT GAMES IN THE MIKRO-GEN RANGE.

Available from retail outlets or direct from:

MIKRO-GEN, 1 Devonshire Cottages, London Rd, Bracknell RG12 2TQ

OR PHONE YOUR ACCESS/VISA NUMBER: (0344) 27317 (9am-6pm)

- ★ Full adventure format - accepts multiple commands at one entry, in plain English
- ★ Witty, intelligent replies to commands
- ★ Skill level select for beginners
- ★ Every location in full screen, high-res, colour graphics
- ★ Three exciting arcade-type games as an integral part of the adventure
- ★ Full help facility and save game command

Tread The Path of Adventure with GILSOFT

FOR THE 48K SPECTRUM



MAGIC CASTLE

£5.95

Try to rescue the princess from the castle, but beware of booby traps and vampires! A gripping adventure for the 48K Spectrum.



DIAMOND TRAIL £5.95

Recover the Sinctive diamond after a daring robbery. First you must overcome many problems in a city fraught with danger and intrigue. This is our latest adventure for the 48K Spectrum.



THE QUILL

£14.95

THE QUILL is a major new utility written in machine code which allows even the novice programmer to produce high-speed machine code adventures of superior quality to many available at the moment without any knowledge of machine code whatsoever. Using a menu selection system you may create well over 200 locations, describe them and connect routes between them. You may then fill them with objects and problems of your choice. Having tested your adventure you may alter and experiment with any section with the greatest of ease. A part formed adventure may be saved to tape for later completion. When you have done so THE QUILL will allow you to produce a copy of your adventure which will run independently of the main QUILL editor, so that you may give copies away to your friends. THE QUILL is provided with a detailed tutorial manual which covers every aspect of its use in writing adventures. For the 48K Spectrum



TIMELINE & TASKS £5.95

A superb 16K adventure in which you must locate your time machine to return to the present. Plus a collection of mind stimulating puzzles.

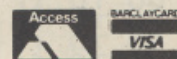
Our Software is now available from many computer shops nationwide, or direct from us by post or telephone.

SAE for full details of our range.

Dealer enquires welcome.

GILSOFT
30 Hawthorn Road
Barry
South Glamorgan
CF6 8LE
(0446) 736369

Credit Card Order line
Personally manned for 24 hours
0222 41361 Ext430




```

1940 IF l=32 THEN PRINT "THOSE WHICH HAVE VIOLATED THE INNER SANCTUARY SHALL PERISH": GO TO fa
1941 IF l=71 THEN PRINT "The inscription curved on the block is in the form of one word only - 'PRAY': GO TO fa
1942 IF l=41 THEN PRINT "There are figures and strange markings etched into the rock which roughly translated mean 'IF YOU GO INTO THESE CAVES REMEMBER ALADDIN AND HIS LAMP': GO TO fa
1943 IF l=11 THEN PRINT "GREAT SPIRIT RID US OF THE TERRIBLE EVIL WHICH LIVES WITHIN OUR TEMPLE. There is more but the paper is old and too worn to read": GO TO fa
1944 IF l=59 THEN PRINT "YOU HAVE FALLEN INTO THE SAME TRAP AS MANY BEFORE YOU. THE WAY OUT IS UP": GO TO fa
1945 IF l=35 THEN PRINT "HUMAN SACRIFICE TO THE GREAT SUN-GOD": GO TO fa
1946 GO TO ct

```

1959 REM **EXAMINE ROUTINE**

```

1960 IF l=11 THEN PRINT "On closer inspection you see a note attached to the inside of the canoe, in front of the seat": GO TO fa
1961 IF l=71 OR l=41 OR l=32 OR l=35 OR l=59 THEN PRINT "There seems to be some form of inscription": GO TO fa
1962 GO TO ct

```

1979 REM **REVEAL ROUTINE**

```

1980 IF l<>88 AND l<>50 THEN GO TO 1830
1981 PRINT "You find something you hadn't noticed before"
1982 IF l=88 THEN LET o(51)=l
1983 IF l=50 THEN LET o(34)=l
1984 GO TO tr

```

1990 REM **OBJECT SEARCH**

```

1997 PRINT "You cannot do that"
1998 LET f=0: RETURN
1999 LET f=1: RETURN
2000 LET x=0: PRINT q$
2010 RESTORE os+1: FOR i=1 TO oc: READ m$
2020 IF l<>o(i) THEN GO TO 2030
2021 LET x=1: PRINT "a"
2022 LET z$=m$(1 TO 1): IF z$="a" OR z$="e" OR z$="i" OR z$="o" OR z$="u" THEN PRINT "n"
2024 PRINT " ";m$
2030 NEXT i
2040 IF x=0 THEN PRINT " nothing"
2050 RETURN

```

6999 REM **VERB LISTING**

```

7000 DATA 25
7001 DATA "north","south","east","west","up","down"
7002 DATA "take","drop","kill","inventory","score"
7003 DATA "cut","dive","unlock","dig"
7004 DATA "eat","rub","jump","drink"
7005 DATA "push","break","prag","read"
7006 DATA "examine","reveal"

```

7097 REM **GENERAL CONDITION**
7098 REM **OBJECT NUMBER**
7099 REM **MONSTER DISPOSITION**

```

7100 GO TO tr
7101 GO TO fa+lu
7102 GO TO fa+gu
7103 GO TO fa+be
7104 GO TO fa+(o(3)=0)

```

```

7105 GO TO fa+(o(11)=-1): REM Rattlesnake
7106 GO TO fa+(o(12)=-1): REM Pirate
7107 GO TO fa+(o(10)=-1): REM Native
7108 GO TO fa+(o(26)=-1): REM Gorilla
7109 GO TO fa+(o(29)=-1): REM Crocodile
7110 GO TO fa+(o(35)=-1): REM Diplodocus
7111 GO TO fa+(o(25)=-1): REM Vampire bat
7112 GO TO fa+(o(41)=0)
7113 GO TO fa+(o(44)=0)
7114 GO TO fa+(o(55)=-1): REM Pteranodon
7115 GO TO fa+(o(53)=-1): REM Lizard
7116 GO TO fa+(o(22)=-1)

```

7149 REM **RUM CONDITION**

```

7150 IF o(17)<>0 THEN GO TO tr
7151 LET o(17)=-1: LET o(12)=-1: PRINT "As you enter the pirate whips the rum from your hand and runs away towards the direction of the beach": GO TO tr
7160 PRINT "You have been killed by the Incaspirits!": GO TO rr

```

7998 REM **OBJECTS DATA FORMAT**
7999 REM **NUMBER AND LOCATION**

```

8000 DATA 57,1,15,57,-1,21,18,1,100,58,27,30,42,32,-1,-1,5,16,-1,26,13,-1,25,-1,22,38,21,12,38,5,1,57,30,27,51,-1,100,57,57,26,11,42,44,59,59,28,40,68,-1,-1,-1,-1,-1,82,82,72,95,95,43
8001 DATA "flare"
8002 DATA "machete"
8003 DATA "air tank"
8004 DATA "key"
8005 DATA "anchor"
8006 DATA "foghorn"
8007 DATA "lantern"
8008 DATA "rudder"
8009 DATA "compass"
8010 DATA "native"
8011 DATA "rattlesnake"
8012 DATA "pirate"
8013 DATA "inca spirit"
8014 DATA "canvas"
8015 DATA "bridge spanning the chasm"
8016 DATA "spade"
8017 DATA "rum bottle"
8018 DATA "empty bottle"
8019 DATA "vine hanging from the tree"
8020 DATA "cane door"
8021 DATA "open door"
8022 DATA "stone door"
8023 DATA "door open wide"
8024 DATA "cross"
8025 DATA "vampire bat"
8026 DATA "gorilla"
8027 DATA "blowpipe"
8028 DATA "tiller"
8029 DATA "crocodile"
8030 DATA "cutlass"
8031 DATA "chain"
8032 DATA "jib"
8033 DATA "genoa"
8034 DATA "pulley"
8035 DATA "diplodocus"
8036 DATA "table"
8037 DATA "chart"
8038 DATA "knife"
8039 DATA "canoe"
8040 DATA "sextant"
8041 DATA "rope"
8042 DATA "halyard"
8043 DATA "transmitter"
8044 DATA "bucket"
8045 DATA "telescope"
8046 DATA "chest"
8047 DATA "open chest"
8048 DATA "dinghy"
8049 DATA "pump"
8050 DATA "wetsuit"
8051 DATA "staysail"

```


ADVENTURE FILE

The most complete listing available of adventures, war games and real-life simulations — new entries are printed in *italic* and should be sent to Adventure File, Micro Adventurer, 12-13 Little Newport St, London WC2R 3LD

| COMPANY | GAME | PRICE | MICRO |
|--|--|--|--|
| Abacus 716 Llangyfelech Rd Treboech Swansea | Into the Labyrinth | £5.99 | Dragon 32, Vic 20 |
| Abbeys Tavistock House 34-36 Bromham Rd Bedford | Domain | £4.95 | Spectrum |
| Absoft 7 Maes Afallen Bow St Dyfed | Faust's Folly | £5.95 | Spectrum |
| Abrasco The Grange Barn Pike's End Eastcote Middx | Adventure 1 | £5.95 | ZX81 |
| Acornsoft 4A Market Hill Cambridge | Adventure 1 | £6.95 | Spectrum 48K |
| Addictive Games Albert House Albert Rd Bournemouth | Pirate | £8.50 | Dragon 32 |
| Adventure International c/o Calisto Computers 119 John Bright St Birmingham | Philosopher's Quest | £9.95 | BBC B |
| | Castle of Riddles | £9.95 | BBC B |
| | Sphinx Adventure | £9.95 | BBC B |
| | Countdown to Doom | £9.95 | BBC B |
| | Kingdom of Hamil | £9.95 | BBC B |
| | Football Manager | £5.95 | ZX81 |
| | Football Manager | £6.95 | Spectrum 48K |
| Adventure International c/o Calisto Computers 119 John Bright St Birmingham | Scott Adams Adventures: Adventureland, Pirate Adventure, Mission Impossible, Voodoo Castle, The Count, Strange Odyssey, Mystery Fun House, Pyramid of Doom, Ghost Town, Savage Island Parts I and II, Golden Voyage | £16.99 each on cas- sette, £28.95 on disk | Atari E (only the first two adventures are on disk) |
| A&F Software 830 Hyde Road Manchester | Galactic Empire | £14.95 | Atari E |
| | Galactic Trader | £14.50 | Atari E |
| | Treasure Quest | £10.95 | Atari E |
| | Triad | £25.49 | Atari E |
| | Curse of Crowley Manor | £17.95 | Atari E |
| Algray Software Aled House Dewsbury Rd Ossett Wakefield | Death Satellite | £6.90 | Atom, Oric |
| | Zodiac | £6.90 | Atom, Oric |
| | Pharaoh's Tomb | £7.99 | BBC |
| | Tower of Altos | £6.90 | BBC |
| | Deadwood | £6.90 | Dragon 32 |
| | Fortress of Evil | £7.95 | Colour Genie |
| | Labyrinth of Fear | £8.95 | Colour Genie |
| | Double Agent | £12.95 | Colour Genie |
| Analog Software c/o Mapsoft Unit A Oak Rd South Hadleigh Benfleet Essex | Analog Adventure | £16.95 | Atari E + drives |
| Anirog Computers 8 The High St Horley Surrey | Dracula | £5.95 | Vic 20 E |
| | Pharaoh's Tomb | £5.95 | Vic 20 E |
| | Zok's Kingdom | £5.95 | Vic 20 E |
| | The Dungeon | £5.95 | Vic 20 E |
| Artic | Planet of Death | £5.95 | ZX81 |
| | Planet of Death | £6.95 | Spectrum 48K |

| COMPANY | GAME | PRICE | MICRO |
|--|---------------------------------|------------------|---|
| Artic (Contd) Main St Brandesburton Driffild Yorks | Inca Curse | £5.95 | ZX81 |
| | Inca Curse | £6.95 | Spectrum 48K |
| | Ship of Doom | £5.95 | ZX81 |
| | Ship of Doom | £6.95 | Spectrum 48K |
| | Espionage Island | £5.95 | ZX81 |
| | Espionage Island | £6.95 | Spectrum 48K |
| | Golden Apple | £6.95 | Spectrum 48K |
| Assassin Software 10 Ash Rd Leeds 6 | Usurper | £6.00 | Spectrum |
| | Krago Castle | £6.00 | Spectrum |
| Atari Atari House Railway Terrace Slough Berks | Energy Czar | £14.99 | Atari E |
| | Kingdom | £14.99 | Atari E |
| | ET | £29.99 | Atari |
| Audiogenic PO Box 88 Reading Berks | Tomb of Drowan | £12.95 | Vic 20 E |
| | Boss | £14.95 | Vic 20 E |
| | Grand Master | £17.95 | Vic 20 E, CBM 64 |
| Automata 27 Highland Rd Portsmouth Hants | Pimania | £10.00 | Spectrum 48K, ZX81, BBC B, Dragon 32 |
| Avalon Hill 650 High Rd London N12 | Groucho Bl Bomber | £10.00 £11.95 | Spectrum 48K Atari, TRS80 I and III, CBM 64, Pet |
| | Legionnaire VC | £25.95 £14.95 | Atari, Apple II Atari E, Apple II + drives, TRS80 I and II |
| | Nukewar | £11.95 | Atari, Apple II, TRS80 I and III, CBM 64, Pet |
| | North Atlantic Convoy Raider | £11.95 | Atari, Apple II, TRS80 I and III, CBM 64 |
| | Midway Campaign | £11.95 | Atari E, Apple II, TRS80 I and III, CBM 64, Pet |
| | Tanktics | £17.45 | Atari E, Apple II, TRS80 I and III, Pet |
| | Dnieper River Line | £18.95 | Atari E, Apple II, TRS80 I and III, Pet |
| | Close Assault | £21.95 | Atari E, Apple II, TRS80 I and III |
| | Paris in Danager Telengard | £25.95 £17.45 | Atari + drives Atari E, Apple II + drives, TRS80 I and III, CBM 64, Pet |
| | GFS Sorceress | £21.95 | Atari E, Apple II, TRS80 I and III |
| | Empire of Overmind | £21.95 | Atari E, Apple II, TRS80 I and III |
| | Lords of Karma | £14.95 | Atari E, Apple II, TRS80 I and III |
| | Fredericksburg | £25.95 | TRS80 I and III + drives |
| | Tactical Armour Command | £28.95 | Apple II + drives |
| | Galaxy Voyager I | £14.95 £14.95 | Atari E Atari E, Commodore Pet, IBM PC |
| Bamby Software Leverburgh Isle of Harris | Andromeda Conquest | £13.45 | Atari |
| | Controller | £18.95 | Atari |
| | Planet Miners | £11.96 | Atari E |
| | Scream | £19.99 | Atari |
| | Golden Apples | £5.95 | Dragon 32 |
| | Planetary Trader | £5.95 | Dragon 32 |
| | Surprise | £8.95 | Dragon 32 |
| | Alien Odyssey | £9.95 | Dragon 32 |
| | Scanner 13 | £8.45 | Dragon 32 |
| | Mystery Manor | £6.50 | Spectrum 48K |
| | Alone at Sea | £6.50 | T199/4A |
| | Nodrug's Quest | £8.45 | T199/4A |
| | Underground Adventure | £8.45 | T199/4A |
| Bug-Byte Software Mulberry House Canning Place Liverpool | The Castle | £6.95 | Spectrum, Oric |
| | Dictator | £9.00 | ZX81 |
| | Dragonquest | £11.50 | BBC |
| | Damsel and the Beast | £6.50 | ZX81 |
| | Adventure | £5.95 | ZX81 |
| | Old Father Time | £9.50 | BBC B |

SCR ADVENTURES

present

CASTLE BLACKSTAR

A medieval fantasy for the Spectrum 48K.
The first of the ARTEMIS quests.

SCR Adventures has been set up to supply high quality adventure programs to the personal computer market. Written by dedicated adventure players they aim to provide a real challenge to the expert whilst still rewarding the efforts of the novice.

CASTLE BLACKSTAR FEATURES

- fast machine code based program
- save game and restart facilities
- large vocabulary
- over 200 seperate locations
- sophisticated data compression to make full use of the Spectrum memory
- full of ticks, traps and puzzles

WILL YOU BE ABLE TO

- steal from the witch?
- cross the lake?
- leave the chapel alive?
- fly?

PERHAPS YOU MAY LIVE TO ATTAIN YOUR GOAL

YOU WILL NOT BE DISAPPOINTED BY THE ARTEMIS QUESTS

DEALER ENQUIRIES
WELCOME!

CASTLE BLACKSTAR

Please send me copies of Castle Blackstar at £8.95 each
Make cheques/P.O.'s payable to SCR Adventures.

NAME

ADDRESS

Send this coupon to:—
Dept MA1,
SCR Adventures,
190, Shelbourne Rd.,
Tottenham,
London, N17 9YB.



Mastercode Assembler for the Commodore 64

Full Commodore 64 Assembler/Disassembler
Only £14.95 inc VAT

Mastercode is a substantial and complex program, providing a host of features of use to anyone interested in machine code programming on the Commodore 64. Despite its complexity Mastercode is designed with the user in mind and is far easier to use than many assemblers/disassemblers.

Mastercode features:

- Machine code monitor
- File Editor
- Disassembler
- Assembler

Please send me Commodore 64 Mastercode Assembler @ £14.95 inc VAT. I enclose cheque/postal order for £..... made payable to Sunshine: 12/13 Little Newport Street, London WC2R 3LD. Or telephone your order through Access/Mastercard on 01-437 4343

Name

Address

Signature

LOOK OUT FOR THE SUNSHINE RANGE IN
W.H. SMITH'S, BOOTS, JOHN MENZIES,
OTHER LEADING RETAIL CHAINS AND
THROUGH OUR NATIONAL NETWORK OF
BOOK SHOPS AND SPECIALIST STORES.

DEALER ENQUIRIES: 01-437 4343

| COMPANY | GAME | PRICE | MICRO |
|---|-----------------------------------|--------|------------------------------|
| Buntasoft 149 Monks Walk Buntingford Herts | Kraal's Kingdom | £4.95 | Vic 20 E |
| Carnell Software North Weylands Industrial Estate | Volcanic Dungeon | £5.00 | ZX81, Spectrum, Dragon 32 |
| Mosley Rd | Black Crystal | £7.50 | ZX81, Spectrum |
| Hersham | Wumpus Adventure | £5.00 | ZX81 |
| Surrey | The Crypt | £4.95 | Spectrum 48K |
| CCS 14 Langton Way London SE3 | Corn Cropper | £5.00 | ZX81, Spectrum |
| | Corn Cropper | £6.00 | Spectrum 48K, BBC |
| | Auto Chef | £6.00 | Spectrum 48K |
| | Print Shop | £6.00 | Spectrum 48K |
| | Airline | £6.00 | Laser, Spectrum 48K |
| | Airline | £6.95 | Oric |
| | Dallas | £5.00 | Laser, Spectrum, BBC |
| | Dallas | £6.95 | Oric |
| | Camelot | £5.00 | Spectrum, ZX81, Laser |
| | Smuggler | £5.00 | Spectrum, ZX81, Laser |
| | Plunder | £5.00 | Spectrum, ZX81, Laser |
| | British Lowland | £5.00 | Spectrum, ZX81, Laser |
| | Byte | £5.00 | Spectrum, ZX81, Laser |
| | Gangsters | £5.00 | Spectrum, ZX81, Laser |
| | Abyss | £5.00 | Spectrum, ZX81, Laser |
| Chalksoft 37 Willowslea Rd Northwick Worcester | Inkosi | £6.95 | BBC, Spectrum, Vic 20 |
| Chameleon Software c/o Calisto Computers 119 John Bright St Birmingham | Stone of Sisyphus | £27.99 | Atari plus drives |
| Channel 8 51 Fishergate Preston Lancashire | The Golden Baton | £9.95 | Atari E, CBM 64 |
| | The Time Machine | £9.95 | Atari E, CBM 64 |
| | Arrow of Death 1 | £9.95 | Atari E, CBM 64 |
| | Arrow of Death 2 | £9.95 | Atari E, CBM 64 |
| | Escape from Pulsar 7 | £9.95 | Atari E, CBM 64 |
| | Circus | £9.95 | Atari E, CBM 64 |
| | Feasibility Experiment | £9.95 | Atari E, CBM 64 |
| | The Wizard Akryz | £9.95 | Atari E, CBM 64 |
| | Perseus and Andromeda | £9.95 | Atari E, CBM 64 |
| Commodore 675 Ajax Avenue Slough Berks | Ten Little Indians | £9.95 | Atari E, CBM 64 |
| | Adventureland | £9.99 | Vic 20 |
| | The Count | £9.99 | Vic 20 |
| | Mission Impossible | £9.99 | Vic 20 |
| | Pirate Cove | £9.99 | Vic 20 |
| | Voodoo Castle | £9.99 | Vic 20 |
| | Strategic Advance | £4.99 | Vic 20 E |
| | High Flyer | £14.95 | CBM 64 + drives |
| Compusense 286D Green Lanes PO Box 169 Palmer's Green London N13 | Pirates Ahoy | £7.95 | Dragon 32 |
| Computer Rentals 140 Whitechapel Rd London E1 | Rescue | £5.95 | Spectrum 48K |
| | Keys of Roth | £6.95 | Dragon 32 |
| | Stargazer's Secrets | £5.95 | Spectrum 48K |
| | Woods of Winter | £5.95 | Spectrum 48K |
| | The Incredible Adventure | £5.95 | Spectrum 48K |
| Cosmi c/o CentreSoft House Unit 16 Bloomfield Rd Tipton West Midlands | Forbidden Forest | £9.95 | CBM 64 |
| CP Software 17 Orchard Lane Prestwood Bucks | Colossal Caves | £6.95 | Spectrum 48K |
| | Golfing World | £5.95 | Spectrum 48K |
| Crystal Computing 2 Ashton Way East Herrington Sunderland | Dungeon Master | £7.50 | Spectrum 48K |
| | Halls of the Things | £7.50 | Spectrum 48K |
| | Merchant of Venus | £5.50 | ZX81 |
| | The Island | £7.50 | ZX81 |
| Crystal Computing c/o Soft Machine Station Crescent | Invasion of the Body Snatchers | £7.50 | |

| COMPANY | GAME | PRICE | MICRO |
|--|----------------------------------|--------|------------------------|
| Crystal Computing (Contd) Blackheath London | | | |
| Datasoft c/o CentreSoft House Bloomfield Rd Tipton West Midlands | O'Riley's Mine | £21.95 | Atari |
| Digital Fantasia 24 Norbreck Rd Blackpool Lancs | The Wizard of Akryz | £9.95 | BBC B, Spectrum 48K |
| | Perseus and Andromeda | £9.95 | BBC B, Spectrum 48K |
| | Ten Little Indians | £9.95 | BBC B, Spectrum 48K |
| | Arrow of Death 1 | £9.95 | BBC, Spectrum 48K |
| | Arrow of Death 2 | £9.95 | BBC, Spectrum 48K |
| | The Golden Baton | £9.95 | BBC, Spectrum 48K |
| | Time Machine | £9.95 | BBC, Spectrum 48K |
| | Circus | £9.95 | BBC B, Spectrum 48K |
| | Feasibility Experiment | £9.95 | BBC B, Spectrum 48K |
| | Escape from Pulsar 7 | £9.95 | BBC B, Spectrum 48K |
| DK Tronics Unit 6 Shire Hill Industrial Estate Saffron Walden Essex | Dictator | £5.95 | Spectrum 48K |
| | Dictator | £6.95 | BBC B |
| Dragon Data Kenfig Industrial Estate Margam Pt Talbot West Glamorgan | Calisto Island | £7.95 | Dragon 32 |
| | Dragon Mountain | £7.95 | Dragon 32 |
| | Madness and the Minotaur | £7.95 | Dragon 32 |
| | Quest | £7.95 | Dragon 32 |
| | Black Sanctum | £7.95 | Dragon 32 |
| | El Diablero | £7.95 | Dragon 32 |
| | Mansion of Doom | £7.95 | Dragon 32 |
| | Poseidon Adventure | £7.95 | Dragon 32 |
| | Final Countdown | £7.95 | Dragon 32 |
| | Stalag/Eno | £7.95 | Dragon 32 |
| Dungeon Software Milton House St John St Ashbourne Derbyshire | The Crystal Chalice of Quorum | £7.95 | Dragon 32 |
| | The Temple of Zoren | £7.95 | Dragon 32 |
| | Treasure Tombe | £7.95 | Dragon 32 |
| | Giant's Castle | £5.95 | Dragon 32 |
| Educational Software c/o Mapsoft Unit A Oak Rd South Hadleigh Benfleet Essex | The Adventures of Proto | £17.95 | Atari + drives |
| Eighth Day Software 18 Flaxhill Moreton Wirral Merseyside | Dark Lore | £6.95 | Spectrum 48K, ZX81 |
| English Software c/o CentreSoft House Unit 16 Bloomfield Rd Tipton West Midlands | Escape from Perilous | £14.95 | Atari |
| Epyx c/o CentreSoft House Unit 16 Bloomfield Rd Tipton West Midlands | Temple of Apsai | £27.95 | CBM 64, Atari |
| | Upper Reaches of Apsai | £15.95 | CBM 64, Atari |
| | Curse of Ra | £15.95 | CBM 64, Atari |
| | Crush Crumble Chomp | £21.95 | CBM 64, Atari |
| | Gateway to Apsai | £27.95 | CBM 64, TI99/4A |
| | Sword of Fargoal | £21.95 | CBM 64 |
| Epyx c/o Mapsoft Unit A Oak Rd South Hadleigh Benfleet Essex | Datestones of Ryn | £13.80 | Atari E, Vic 20 |
| | Invasion Orion | £17.25 | Atari E, Vic 20 |
| | Rescue at Rigel | £20.75 | Atari E |
| | Star Warrior | £27.45 | Atari E |
| | Crush, Crumble and Chomp | £20.75 | Atari E |
| | Temple of Apsai 1 | £27.45 | Atari E |
| | Upper Reaches of Apsai 2 | £13.80 | Atari E |
| | Curse of Ra 3 | £13.80 | Atari E |
| | Crypt of the Undead | £20.75 | Atari E + drives |
| | Dragon's Eye | £20.75 | Atari E + drives |
| | King Arthur's Heir | £20.75 | Atari E |
| | The Nightmare | £20.75 | Atari E |



Murder at the Manor

Death comes to a quiet country village when the Lord of the Manor is savagely murdered.

The police are baffled with no obvious clues to help them.

Your skills as an ace investigator are required to identify and apprehend the murderer. This will involve searching for clues (which could be dangerous requiring ingenious deductions), examining the scene of the crime and asking questions of the right people.

What is the mystery of the Gravediggers Hut?

What secret does the safe hold?

What lurks at the bottom of the brook?

These may be some of the questions you will ask yourself during your investigation into the murder at the manor.

The game is based on a fixed map, comprising the Manor House, the Garden, the Town, the Graveyard and many other fully described locations, inhabited by a variety of individual characters whom you are likely to meet.

It is up to you to solve the murder, the locals may know the answer — but will they tell YOU!

This original adventure fills your 48K Spectrum with over 120 locations, all of which are depicted in full colour machine-coded graphics.

Add sound effects, a full score and save game facility plus a comprehensive and easy to use command analyser (incorporating abbreviations and multi-command lines) and you are sure of many exciting and frustrating hours.

WARNING — this is a 4D adventure where night brings added difficulties.

Cassette and instruction booklet costs £6.95 inc.

GEMTIME, 16 Ben Ledi Road, Kirkcaldy, Fife.

Dealer enquires welcome



DUCKWORTH HOME COMPUTING

a new series

All books written by Peter Gerrard, former editor of *Commodore Computing International*, author of two top-selling adventure games for the Commodore 64, or by Kevin Bergin. Both are regular contributors to *Personal Computer News*, *Which Micro?* and *Software Review*.

EXPLORING ADVENTURES

A complete look at the fabulous world of Adventure Games for your computer. Starting with an introduction to adventures, and their early history, it takes you gently through the basic programming necessary before you can start writing your own games. Inputting information, room mapping, movement, vocabulary, and everything required to write an adventure game are explored in detail. There follow a number of adventure scenarios, just to get started, and finally three complete listings written especially for your machine, which will send you off into wonderful worlds where almost anything can happen. The three games listed in each book are available on one cassette at £7.95. The complete guide to adventure games: playing, writing and solving them. Peter Gerrard is the author of Romik's two top-selling adventure games — *Pools Gold* and *Tomb of Xeiops*.

| | |
|--|------------------------|
| EXPLORING ADVENTURES ON THE COMMODORE 64 | £6.95 (Just published) |
| EXPLORING ADVENTURES ON THE VIC* | £6.95 (Just published) |

*Two of the games require 16K expansion and the third 32K

| | |
|--|------------------------|
| EXPLORING ADVENTURES ON THE SPECTRUM 48K | £6.95 (Just published) |
| EXPLORING ADVENTURES ON THE ORIC 48K | £6.95 (This month) |
| EXPLORING ADVENTURES ON THE DRAGON | £6.95 (February) |
| EXPLORING ADVENTURES ON THE BBC Model B | £6.95 (February) |
| EXPLORING ADVENTURES ON THE ELECTRON | £6.95 (February) |

Other titles in the series include *Using the Commodore 64*, *The Beginner's Guide to Computers and Computing*, *Sprites & Sound on the 64*, *12 Simple Electronic Projects for the VIC*, *Will You Still Love Me When I'm 64*, *Advanced Basic & Machine Code Programming on the VIC*, *Advanced Basic & Machine Code Programming on the 64*, as well as *Pocket Handbooks for the VIC, 64, Dragon and BBC Model B*.

Write in for a descriptive leaflet (with details of cassettes).



DUCKWORTH

The Old Piano Factory, 43 Gloucester Crescent, London NW1 7DY
Tel: 01-485 3484

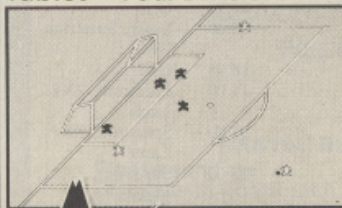
The No.1* Football Game

Football Manager

Designed by Kevin Toms

Some of the features of the game:

- ★ Matches in 3D graphics
- ★ Transfer market ★ Promotion and relegation ★ F.A. Cup matches ★ Injury problems ★ Full league tables ★ Four Divisions



- ★ Pick your own team for each match. ★ As many seasons as you like ★ Managerial rating ★ 7 skill levels ★ Save game facility.

addictive

* ZX81 Chart

Home Computing Weekly
1.8.83 and 1.11.83.

Comments about the game from press and our customers.
"FOOTBALL MANAGER is the best game I have yet seen on the Spectrum and my personal favourite of all the games on any micro. To the ordinary person it is an excellent view of what can be done in the field of computer games. The crowning glory of this game is the short set pieces of match highlights which show little stick men running around a pitch, shooting, defending and scoring. It is a compulsive game but people who cannot take game sessions of 9 hours or so, which happened on one happy Sunday, will be grateful to know that there is a 'save to tape' option. FOOTBALL MANAGER has everything it could. The originator, Addictive Games, certainly deserve the name." Rating: 19/20 (Practical Computing - August 1983).

From software stockists nationwide, inc.

WHSMITH John Menzies

Prices: Spectrum 48K £6.95
ZX81 16K £5.95
(In the ZX81 16K only)
Overseas orders add \$1.50

To order by mail (p&h) send cheque or postal order to:
Addictive Games
Albert House, Albert Road,
Bournemouth BH1 19Z.

Dealers! For urgent stocks send your headed notepaper direct to our address.

8TH DAY ADVENTURE

DARK LORE IS A DYNAMIC NEW TEXT ADVENTURE GAME with over 100 locations, and many problems to solve on your journey.

Can you find the sacred talisman, pit your wits against insurmountable problems, and face many perils in your bid to confront the Dark Lord? Have you the courage to do battle with a host of awesome creatures, gamble your final reserves of money, seek a sea passage, soar boldly through the sky, all in a desperate struggle for good to triumph over unspeakable evil? Dark Lore is the epic adventure to play for the 48K ZX Spectrum. Send £6.95 to:

COMING SOON . . .

BYTE YOUR THUMB!!

The craziest adventure game yet —
ARE YOU MAN ENOUGH TO MEET THE MOP??*!?

8TH DAY SOFTWARE
18 FLAXHILL
MORETON, WIRRAL
MERSEYSIDE L46 7UH

| COMPANY | GAME | PRICE | MICRO |
|---|------------------------|----------------|--|
| ◀ Epyx (Contd) | | | + drives |
| | Hellfire Warrior | £27.45 | Atari E |
| | Danger in Drindisti 2 | £13.80 | Atari E |
| | The Keys of Acheron 3 | £13.80 | Atari E |
| | Monster Maze | £27.45 | Atari E, Vic 20 |
| | Escape Vulcan's Isle | £20.75 | Atari E + drives |
| | Pyramid | £4.95 | Dragon 32 |
| | Espionage | £4.95 | Dragon 32 |
| Exodus Penrice Drive Tivdiale Warley West Midlands | | | |
| Felix Software 19 Leighton Ave Pinner Middlesex | Tomb of Dracula | £4.95 | Spectrum 48K |
| | Tomb of Dracula | £3.95 | ZX81 |
| Gebelli c/o Mapsoft Oak Rd South Hadleigh Benfleet Essex | Dr Goodcode's Tavern | £21.95 | Atari E + drives |
| Gemtime 16 Ben Ledi Rd Kirkcaldy | Murder at the Manor | £6.95 | Spectrum 48K |
| Gilsoft 30 Hawthorn Rd Barry South Glamorgan Wales | Tasks/Time-line | £4.95 | Spectrum |
| | Magic Castle | £4.95 | Spectrum 48K |
| | Diamond Trail | £4.95 | Spectrum 48K |
| | The Quill | £14.95 | Spectrum 48K |
| Golem 77 Qualitas Bracknell Berks | Katakombs | £8.00 | BBC B |
| Hewson Consultants 60A St Mary's St Wallingford Oxon | Heathrow: ATC | £7.95 | Spectrum |
| | Nightflite | £5.95 | Spectrum |
| | Dragonfly | £6.95 | Dragon 32 |
| | Quest Adventure | £5.95 | Spectrum 48K |
| Impact Software 70 Redford Avenue Edinburgh | Orb | £5.00 | Dragon 32, Vic 20 E, Spectrum 48K |
| | The Quest | £5.00 | Dragon 32, Spectrum 48K |
| | 3D Maze | £5.00 | Dragon 32, Spectrum 48K |
| Infocom c/o Softsel Central Way Feltham Middx | Zork I, II and III | £28.75 each | Apple, Atari, CBM 64, IBM PC, TI Professional, CP/M systems (all plus drives) |
| Infocom c/o CentreSoft House Unit 16 Bloomfield Rd Tipton West Midlands | Deadline | £37.95 | Atari E + drives |
| | Starcross | £37.95 | Atari + drives |
| | Suspended | £37.95 | Atari E + drives |
| | Witness | £37.95 | Atari E + drives |
| | Planetfall | | Atari E |
| | Castle Colditz | | Spectrum 48K |
| JRS Software 19 Wayside Ave Worthing Sussex | Lost Island | £3.95 | ZX81 |
| | Battleships | £3.95 | ZX81 |
| J V Software c/o Mapsoft Unit A Oak Rd South Hadleigh Benfleet Essex | Journey to the Planets | £20.45 | Atari E |
| | Green Ring | £7.00 | Spectrum |
| Kenema Associates 1 Marlborough Drive Worle Avon | Hell's Temple | £12.00 | Oric 48K |
| Kew Enterprises 14 Fairway Ave Manchester | Secret Mission | £5.00 | Vic 20 E |
| Legend 1 Milton Rd Cambridge | Valhalla | £14.95 | Spectrum 48K |
| Level 9 Computing 229 Hughenden Road High Wycombe Bucks | Colossal Adventure | £9.90 | CBM 64, Atari, Oric, Lynx, BBC, Spectrum, Nascom |
| | Adventure Quest | £9.90 | CBM 64, Atari, Oric, Lynx, BBC, Spectrum, Nascom |
| | Dungeon Adventure | £9.90 | CBM 64, Atari, Oric, Lynx, BBC, Spectrum, Nascom |
| | Snowball | £9.95 | CBM 64, Atari, |

| COMPANY | GAME | PRICE | MICRO |
|--|---|----------------|---|
| | | | Oric, Lynx, BBC, Spectrum 48K |
| MC Lothlorien 4 Granby Rd Cheadle Hulme Cheshire | Samurai Warrior | £4.50 | ZX81 |
| | Samurai Warrior | £6.95 | Dragon 32 |
| | Peloponnesian War | £4.50 | ZX81 |
| | Johnny Reb | £5.50 | Spectrum 48K |
| | Privateer | £4.50 | ZX81, Spectrum 48K |
| | Paras | £6.95 | BBC B |
| | Roman Empire | £4.50 | ZX81 |
| | Roman Empire | £6.95 | BBC B, Dragon 32 |
| | Roman Empire | £12.50 | Atari E |
| | Tyrant of Athens | £4.50 | ZX81 |
| | Tyrant of Athens | £6.95 | Dragon 32 |
| | Warlord | £5.50 | Spectrum 48K |
| | Warlord | £6.95 | Oric 48K, Dragon 32 |
| | Warlord | £4.50 | ZX81 |
| | Roman Empire | £5.50 | Spectrum 48K |
| | Bedlam | £5.95 | Spectrum 48K |
| | Confrontation | £7.95 | Spectrum 48K |
| | Dreadnaughts | £5.95 | Spectrum 48K |
| | Red Baron | £5.95 | Spectrum 48K |
| | Battle Zone 2000 | £6.95 | BBC |
| Martech Games 9 Dillingburgh Rd Eastbourne Sussex | Galaxy Conflict | £11.95 | ZX81, Spectrum |
| | Galaxy Conflict | £14.75 | BBC B, Dragon 32, CBM 64, Atari E |
| | Conflict | £11.95 | ZX81, Spectrum |
| | Conflict | £14.75 | BBC B, Dragon 32, CBM 64, Atari E |
| Martech c/o Soft Machine Station Crescent Blackheath London | Quest of Merravid | £7.95 | CBM 64, Vic 20 |
| Melbourne House 131 Trafalgar Rd London SE10 | The Hobbit | £14.95 | Spectrum 48K, CBM 64, BBC, Oric |
| | The Wizard and the Princess | £5.95 | Vic 20 |
| Microdeal 41 Truro Rd St Austell Cornwall | Phantom Slayer | £8.00 | Dragon 32 |
| | Mansion Adventure I | £8.00 | Dragon 32 |
| | Space Monopoly | £8.00 | Dragon 32 |
| | Keys of the Wizard | £8.00 | Dragon 32 |
| | Jerusalem Adventure | £8.00 | Dragon 32 |
| | Williamsburg Boulevard | £8.00 | Dragon 32 |
| | Ultimate Adventure | £8.00 | Dragon 32 |
| | Escape | £8.00 | Dragon 32 |
| Mikro-Gen 24 Agar Crescent Bracknell Berks | Sorcerer's Castle | £5.50 | Spectrum |
| | Mad Martha | £5.50 | Spectrum |
| | Mines of Saturn/ Return to Earth | £5.95 | Spectrum |
| Molimerx 1 Buckhurst Rd Town Hall Square Bexhill-on-Sea East Sussex | Mysterious Adventures: Golden Baton, Time Machine, Arrow of Death Parts I and II, Escape from Pulsar 7, Circus, Feasibility Experiment, Wizard of Akyrz, Perseus and Andromeda, Ten Little Indians | £10.06 each | TRS80 I and III, Video Genie I and II, Colour Genie, BBC B |
| | Epic Hero: Ocean Hunt, Dungeon of Derojhen, Venus Must Live | £10.06 each | TRS80 I and III, Video Genie I and II |
| | Battle of Britain | £15.53 | TRS80 I and III, Video Genie I and II |
| | Concorde | £17.25 | TRS80 I and III, Video Genie I and II |
| | Fairytale | £10.06 | TRS80 I and III, Video Genie I and II |
| | Wonderland | £10.06 | TRS80 I and III, Video Genie I and II |
| | Dreamworld | £10.06 | TRS80 I and III, Video Genie I and II |
| | Everest Explorer | £10.06 | TRS80 I and III, Video Genie I and II |
| | Temple of Bast | £10.06 | TRS80 I and III, Video Genie I and II |

| COMPANY | GAME | PRICE | MICRO |
|---------------------------|-------------------------------|--------|--|
| ◁ | Wumpus | £6.32 | TRS80 I and III, Video Genie I and II |
| Mr Micro | Dracula | £6.90 | Oric E |
| 69 Partington Lane | Mysterious Island | £9.90 | Vic 20 E |
| Swinton | Gold Rush | £6.90 | Vic 20 |
| Manchester | | | |
| Muse Software | Castle Wolfenstein | £21.55 | Apple, Atari (both plus drives) |
| c/o Softsell | | | |
| Central Way | | | |
| Feltham | | | |
| Middx | | | |
| Newssoft | Black Dwarf's Lair | £4.95 | Spectrum |
| 12 Whitebroom Rd | Time Bandits | £4.95 | Spectrum |
| Warners End | Secret Valley | £4.95 | Spectrum |
| Hemel Hempstead | Great Western | £4.95 | Spectrum |
| Herts | Spectral Maze | £4.95 | Spectrum |
| On-Line Systems | Mission: Asteroid | £17.19 | Atari E + drives |
| c/o Mapsoft | Wizard and the Princess | £21.79 | Atari E + drives |
| Unit A | | | |
| Oak Rd South | Ulysses and the Golden Fleece | £20.64 | Atari E + drives |
| Hadleigh | | | |
| Benfleet | | | |
| Essex | | | |
| Peaksoft | Death's Head Hole | £5.45 | Dragon 32, BBC B, Spectrum 48K |
| 7 Hawthorn Crescent | Don't Panic | £5.45 | Dragon 32 |
| Burton-on-Trent | Lionheart | £5.45 | Dragon 32 |
| Derbyshire | Champions! | £6.95 | Dragon 32, BBC B, Spectrum 48K, Oric 48K, Electron |
| | | | Atari |
| Penguin | Spy's Demise | £15.95 | Atari |
| c/o CentreSoft House, | The Spy Strikes Back | £15.95 | Atari |
| Unit 16 | | | |
| Bloomfield Rd | | | |
| Tipton | | | |
| West Midlands | | | |
| Phipps Associates | Knight's Quest | £4.95 | Spectrum, ZX81 |
| 99 East St | Greedy Gulch | £4.95 | ZX81 |
| Epsom | Magic Mountain | £4.95 | Spectrum |
| Surrey | Adventure | £5.00 | ZX81 |
| | Novotnick Puzzle | £5.00 | ZX81 |
| | Gorgon | £4.95 | Spectrum 48K |
| | Black Planet | £5.95 | Spectrum 48K |
| | The Forest | £9.95 | Spectrum 48K |
| Pixel Games | Trader | £9.95 | ZX81, Spectrum |
| c/o Quicksilva | | £14.95 | Vic 20 |
| 92 Northam Rd | | | |
| Southampton | | | |
| Portent Adventures | Robin Hood | £5.95 | Dragon 32 |
| | Lost Tower of Tintagel | £6.96 | Dragon 32 |
| Premier | Adventure Plus | £7.95 | Dragon 32 |
| 208 Croydon Road | House of Horrors | £4.95 | Dragon 32 |
| London SE20 | Caverns of Doom | £4.95 | Dragon 32 |
| | Dungeons of Death | £6.95 | Dragon 32 |
| | Dragon Power | £7.95 | Dragon 32 |
| | Plant | £5.95 | Dragon 32 |
| | Oil Recovery | £5.95 | Dragon 32, Video Genie, TRS80 I and III |
| Program Power | Adventure | £7.95 | BBC |
| 8/8A Regent St | Eldorado Gold | £6.95 | BBC B |
| Chapel Allerton | Labyrinths of La Coshe | £7.95 | BBC B |
| Leeds | Seek | £6.95 | BBC |
| | Adventure | £6.95 | BBC |
| Protek | Caveman Adventure | £6.95 | BBC |
| c/o Soft Machine | Airliner | £9.95 | Spectrum 48K |
| Station Crescent | | | |
| Blackheath | | | |
| London | | | |
| Psion | Flight Simulation | £7.95 | Spectrum 48K |
| 2 Huntsworth Mews | | | |
| Gloucester Place | | | |
| London NW1 | | | |
| Quality Software | Ali Baba | £24.95 | Atari E + drives |
| c/o CentreSoft House | | | |
| Unit 16 | | | |
| Bloomfield Rd | | | |
| Tipton | | | |
| West Midlands | | | |
| Quicksilva | Trader | £9.95 | ZX81, Spectrum |
| 92 Northam Rd | Trader | £14.95 | Vic 20 |
| Southampton | Pioneer Trail | £3.95 | ZX81 |
| | Ocean Trader | £3.95 | ZX81 |
| | Smuggler's Cove | £6.95 | Spectrum 48K |
| | Velnor's Lair | £6.95 | Spectrum 48K |

| COMPANY | GAME | PRICE | MICRO |
|----------------------------------|--|--------|----------------------------------|
| Quicksilva (Contd) | Xadom | £6.95 | Spectrum 48K |
| | Ring of Power | £9.95 | CBM 64 |
| Red Shift | Apocalypse | £9.95 | Spectrum 48K, BBC B |
| 12C Manor Road | | | |
| London N16 | Apocalypse Expansion: Maps | £4.95 | Spectrum 48K |
| | Apocalypse Expansion: Ancient Scenarios | £4.95 | Spectrum 48K |
| | Apocalypse Expansion: Modern Scenarios | £4.95 | Spectrum 48K |
| Red Shift | Apocalypse | £9.95 | BBC |
| c/o Soft Machine | | | |
| Station Crescent | | | |
| Blackheath | | | |
| London | | | |
| Rocklan | Wizard of Wor | £29.95 | Atari E + drives |
| c/o CentreSoft House | | | |
| Bloomfield Rd | | | |
| Tipton | | | |
| West Midlands | | | |
| Romik Software | Tombs of Xeiops | £6.99 | CBM 64 |
| 272 Argyll Ave | Fool's Gold | £6.99 | CBM 64 |
| Slough | The Golden Apples of Zeus | £4.99 | Vic 20, 8, 16K |
| Berks | Animal Magic | £5.99 | Vic 20, 16K |
| | Zorgon's Kingdom | £6.99 | Vic 20, 8, 16K |
| | 3D Monster Chase | £6.99 | Spectrum 16, 48K |
| | 3D Monster Craze | £9.99 | Lynx |
| | White Crystal | £6.99 | Dragon 32 |
| | Strategic Command | £6.99 | Dragon 32 |
| | Sub | £5.99 | Spectrum 16, 48K |
| Salamander | Franklin's Tomb | £9.95 | Dragon 32, Oric 48K, BBC B |
| 17 Norfolk Rd | | | |
| Brighton | Wizard War | £7.95 | Dragon 32 |
| Sussex | Lost in Space | £9.95 | Dragon 32 |
| | Everest | £7.95 | Dragon 32 |
| | Night Flight | £7.95 | Dragon 32 |
| | 737 Flight Simulator | £9.95 | BBC B |
| Saturn Software | Tomb of Tuthmosis | £5.50 | Dragon 32 |
| Sycamores | Wax Works | £5.50 | Dragon 32 |
| Somersham | Volcano Island | £7.00 | BBC B |
| Cambes | | | |
| Severn Software | Grail | £6.95 | Oric 48K |
| 5 School Crescent | Moria | £4.95 | Spectrum |
| Lydney | Moria | £6.95 | Oric 48K |
| Glos | | | |
| Shards Software | Pettigrew's Diary | £7.95 | Dragon 32 |
| 189 Eton Rd | | | |
| Ilford | | | |
| Essex | | | |
| Richard Shepherd Software | Super Spy | £6.50 | Spectrum 48K |
| Elm House | Transylvanian Tower | £6.50 | Spectrum 48K |
| 23-25 Elmshott Lane | Everest Ascent | £6.50 | Spectrum 48K |
| Cippenham | Ship of the Line | £4.95 | Spectrum |
| Slough | Ship of the Line | £6.50 | Spectrum 48K, CBM 64 |
| Berks | Invincible Island | £6.50 | Spectrum 48K, CBM 64 |
| | Devils of the Deep | £6.50 | Spectrum 48K |
| Sierra On-Line Systems | Mission Asteroid | £17.95 | Atari plus drives |
| c/o Softsel | Mission Asteroid | £14.35 | Apple plus drives |
| Central Way | Mystery House | £17.95 | Apple plus drives |
| Feltham | Wizard and Princess | £23.70 | Atari, Apple (both plus drives) |
| Middx | | | |
| | Cranston Manor | £28.75 | Atari plus drives |
| | Cranston Manor | £25.50 | Apple plus drives |
| | Ulysses and the Golden Fleece | £25.50 | Apple, IBM PC (both plus drives) |
| | Time Zone | £71.95 | Apple plus drives |
| Silverlind | Haunted House | £6.00 | BBC B |
| 156 Newton Rd | Journey to the Stars | £6.50 | BBC B |
| Burton-on-Trent | Passport to Death | £6.50 | BBC B |
| Staffs | Pentiles | £6.50 | BBC B |
| | Othello | £6.95 | BBC B |
| Sinclair | Embassy Assault (also see under Psion and Artic) | £4.95 | Spectrum |
| Stanhope Rd | | | |
| Camberley | | | |
| Surrey | | | |
| Sirius | Fantastic Voyage | £27.95 | Atari E + drives |
| c/o CentreSoft House | | | |
| Unit 16 | | | |
| Bloomfield Rd | | | |
| Tipton | | | |
| West Midlands | | | |
| Soft Toys | The Lair | £6.00 | Vic 20 |
| 14 Lockharton Ave | Star Warp II | £6.00 | Vic 20 |
| Edinburgh | | | |
| Software For All | JR | £6.95 | BBC |
| 72 North St | Space Kingdom | £7.95 | BBC B |
| London N6 | Area Radar Controller | £6.95 | BBC B |

| COMPANY | GAME | PRICE | MICRO |
|---|--|---|--|
| Spectrum c/o CentreSoft House Unit 16 Bloomfield Rd Tipton | Realms of the Undead | £5.50 | Spectrum 48K |
| Sulis Educational Software 4 Church St Abbey Green Bath | Time Traveller | £7.95 | Spectrum, BBC |
| Superb Software 9B Oval Rd London NW1 | The Island | £10.00 | CBM 64 |
| Supersoft Winchester House Canning Rd Wealdstone Harrow Middlesex | Goblin Towers Streets of London Forestland Cosmic Capers Cracks of Fire Catacombs Weird Wood Cornucopia Goblin Towers Cosmic Capers Cracks of Doom Space Module 1 | £9.95 £9.95 £9.95 £7.95 £7.95 £27.00 £25.00 £35.00 £14.00 £16.00 £16.00 £18.95 | CBM 64 CBM 64 CBM 64 CBM 64 CBM 64 Pet + drives Pet + drives Pet + drives Pet + drives Pet + drives Pet + drives Atari E + drives |
| Swiftly c/o Mapsoft Unit A Oak Rd South Hadleigh Benfleet Essex | | | |
| Synapse c/o CentreSoft House Unit 16 Bloomfield Rd Tipton West Midlands | Shamus I Shamus II Necromancer | £24.95 £24.95 £24.95 | Atari, CBM 64 Atari E Atari E |
| Temptation Software 27 Cinque Ports St Rye East Sussex | Dungeons of Doom Admiral Graf Spee Special Mission Baron | £5.95 £5.95 £5.95 £5.95 | Spectrum 48K, ZX81 Spectrum 48K ZX81 TI99/4A E Spectrum 48K, ZX81 |
| Terminal Software 28 Church Lane Prestwich Manchester | Curse of the Werewolf Rescue from Castle Dread Magic Mirror Nosferatu Space Island Vampire Village | £9.95 £9.95 £9.95 £9.95 £6.95 £6.95 £6.95 | Vic 20 E Vic 20 E Vic 20 E Vic 20 E Spectrum 48K Spectrum 48K Spectrum 48K |
| Ultimate The Green Ashby-de-la-Zouch Leics | Atic Atac Lunar Jetman | £5.50 £5.50 | Spectrum 48K Spectrum 48K |
| Virgin Games 61-63 Portobello Rd London W11 | Castle Adventure | £6.95 | Dragon 32 |
| Wintersoft 30 Uplands Park Rd Enfield Middx | Ring of Darkness Operation Gremlin | £9.95 £6.95 | Dragon 32 Oric 48K |
| Work Force 140 Wilsden Ave Luton Beds | Adventure in Time Pirate Island | £7.00 £6.50 | ZX81, Spectrum 48K Spectrum 48K |

NOTES TO THE TABLE

Atari

The programs will run on either the Atari 400 or 800 unless E is specified, in which case extra memory is needed on the 400.

BBC

The programs will run on either of the BBC micros unless the model B is specified, in which case extra memory is needed on the model A.

Drives

If a program needs a disk drive system this is specified in the micro column.

Spectrum

The programs will run on either Spectrum model unless 48K is specified.

ZX81

All programs need a 16K RAM pack.

TOWN NATHAN

HOME COMPUTERS, SOFTWARE, BOARD
GAMES, ROLE PLAYING GAMES AND BOOKS

WEST YORKSHIRE'S LOCAL COMPUTER SHOPS

MORLEY —

DRAGON BYTE

51a Queen Street
Morley
Leeds 28
Tel: 0532 522690

HEADINGLEY —

LAST CHANCE

10 Ash Road
Headingley
Leeds 6
Tel: 0532 744235

CROSSGATES —

HIEROMANS DELL

89 Penda's Way
Leeds 15
Tel: 0532 641855

We're worth a visit because:

- ★ We've probably the best range of software in the North — and we're improving all the time.
- ★ We've a growing range of computers, peripherals, upgrades and books.
- ★ We've the biggest range of Citadel figures for leagues around.
- ★ We've board and adventure games for all ages from TSR, Games Workshop, Avalon Hill, Victory Games, GDW, Yaquinto, etc, etc.

PROGRAMMERS — Assassin Software needs your marketable programs. Give us a call.

DENIS THROUGH THE DRINKING GLASS



Why did Denis Thatcher visit the Pope wearing a truss and a parachute and carrying a lawn mower?
What use is the cherry blossom?
Who is that strange tramp in the woods?

Only you can discover, but first you must deal with Ken Livingstone, Norman Tebbit and lots of other characters in this zany political adventure.

Written in humorous verse. 100% machine code — using the Quill from Gilsoft.
Losing is often funnier than succeeding — Don't play it, play with it — 48K Spectrum £5.50 incl. p&p.

ARCHIMEDES' MAGIC SCREW

Available mid January — if the author can escape from his straight jacket and MI5.

Fresh from inventing the camel driven date stoner, Archimedes is up to his neck in hot water again. Help him make new discoveries — Help him discover the secret of the universe — Help him find the soap

**APPLICATIONS,
Dept M.A1,
8 St. Pauls Road,
Peterborough PE1 3DW.**

I WANT to devote this month's column to one of the most sophisticated adventure games ever devised — Valhalla from Legend Software.

In some respects Valhalla has all the classic and well-tried ingredients — any adventure addict will recognise them.

It is set in the lands of Norse myth; Asgard, Midgard and the wastelands of hell. Valhalla is chock full of good and bad gods, magic artefacts, mysterious locked chests and quests to be fulfilled.

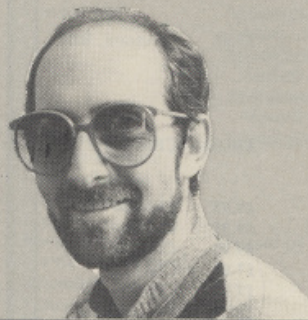
The big difference with Valhalla is that all these things appear on screen and any action has a visible consequence. This means that if you type "Thor pick up food" lo and behold a little character moves across the screen and picks up the food.

A full analysis of Valhalla will have to wait until another time but it's perhaps worth asking whether Valhalla is really an adventure at all. Already some of the hardened text adventure freaks can be heard muttering darkly about "takes all the imagination out of it ... who wants to see everything anyway?"

I propose to treat that argument in the same way I would a pit of screaming fire demons —

ADVENTURE HELP

If you need advice or have some to offer write to Tony Bridge, Adventure Help, Micro Adventurer, 12-13 Little Newport St, London WC2R 3LD



step neatly over it, and simply say that true adventure or not, a lot of adventurers are playing Valhalla.

Believers in the four-year-old whiz-kid myth are going to be sadly disappointed — there were none involved in the creation of Valhalla.

The program is the work of six people, a team created solely for the purpose of producing the game. Each person had a specialised area to work in and the project was co-ordinated by team leader John Peel who designed the map of the game.

The youngest team mentor is James Learmont, an 18-year-old responsible for the animation effects. The other team

members are in their mid 20s and have had previous experience on mainframe computers.

Richard Edwards formerly worked at IBM and handled most of the machine code programming. Graham Asher worked out the logic of the characters' behaviour; their apparent independence is one of the most immediately impressive things about the game. The one woman on the team, Jan Osler, worked on the balance of the game and gave the characters their personality.

Work began in February with the coding starting in March — it actually arrived in October to a rapturous reception.

I've had quite a few letters asking for hints and clues for playing Valhalla and I shall do my best to oblige, but unlike ordinary adventures it is really a matter of playing it for a long time and persuading other characters to help you.

Nevertheless, taking the Arturian space bull by the antennae, here are a few things it's worth remembering when you play: the more lofty gods are unlikely to be much help until well into the game when you've earned some prestige by daring deeds. Boldir is a good friend though (assuming you've decided to be a goody).

All the quest objects are hidden in locked cupboards and chests. You will know when you have found them because when you type in 'What' to find out the contents of something, the computer will tell you the name of the objects. The first clue, Darkness in Midgard, is really very helpful: what can you see that is dark in Midgard?

If you lock something none of the other characters can open it. You don't need to carry quest objects with you, store them in chests and cupboards but don't forget where you put them. Let me know how you get on.

ADVENTURE CONTACT

MICRO Spectrum 48K Adventure The Hobbit Problem How do you get out of the goblin's dungeon, and how do you get the Ring? **Name** Peter Munro **Address** 36 Doods Park Rd, Reigate, Surrey.

MICRO Spectrum 48K Adventure Dungeon Adventure Problem How do I get past the carnivorous jelly and how do I reach the siren? **Name** Gwyn Owens **Address** 38 Redcliffe Walk, Wembley, Middlesex.

MICRO BBC B Adventure Castle of Riddles Problem How do I get out of the giant's shooting gallery without being shot? **Name** Jonathan Boyd **Address** 80 Greenside, Kendal, Cumbria.

MICRO BBC B Adventure Castle of Riddles Problem How do I get out of the jet-black passages, and how do I open the safe? **Name** K P Parker **Address** 1 Hopefield, Lowick Green, Ulverston, Cumbria.

MICRO Spectrum 48K Adventure Espionage Island Problem How to go down the river without being shot and

the relevance of the graffiti on the table **Name** T Dawe **Address** 16 Waltham Rise, Melton Mowbray, Leics.

MICRO Spectrum 48K Adventure The Hobbit Problem How do you get out of the goblins' and Elven

King's dungeon? **Name** R Allsop **Address** 81 Derby Rd, Chellaston, Derby.

MICRO Spectrum 48K Adventure The Hobbit Problem How do you get into the goblins' mountain? **Name** J A Denning **Address** 133 Morland Rd, Aldershot, Hants.

MICRO Spectrum 48K Adventure The Hobbit Problem How do you get past the waterfall? **Name** Paul Storey **Address** 10 Leyburn Crescent, Harold Hill, Romford, Essex.

MICRO Vic 20 Adventure Adventureland Problem I can find only eight treasures, where are the rest? Can you pass the bear without honey? **Name** Tony Hitchens **Address** Flyde College, The University, Bailrigg, Lancaster.

MICRO Dragon 32 Adventure Adventure 200 Problem How do you get past the snake? Which panel A-L in the pyramid? How do you get into the outbuilding next to the grain store? **Name** I Feeney **Address** 16 Surrey Way, Laindon West, Essex.

HAVE YOU BEEN staring at the screen for days, or given up in disgust, stuck in an adventure whose problems seem insurmountable? Adventure Contact may be the answer. This column is designed to put adventurers in touch with one another. When you're stumped a fellow adventurer may be able to help — and you may be able to solve other people's problems. If you are having difficulties with an adventure, fill in this coupon and send it to Adventure Contact, Micro Adventurer, 12/13 Little Newport St, London WC2R 3LD. We will publish Adventure Contact entries each month in this special column.

Micro.....

Adventure.....

Problem.....

Name.....

Address.....

PBM

PBM magazine covers all aspects of the growing play-by-mail gaming hobby, with regular updates on the computer-moderated commercial games as well as details of the enormous number of "free" non-commercial ones. We also look at the prospects for modem and cable gaming and describe the American experience in this area.

Single issue: 90p. Six-issue subscription: £5.25. Cheques/POs payable to Emjay, 17 Langbank Avenue, Rise Park, Nottingham NG5 5BU.

THE WAR MACHINE

Published since 1981, TWM is the specialist magazine for micro owners interested in sophisticated simulation games. We carry reviews of computer wargames, adventures and other software, as well as descriptions of games programming techniques for the home programmer.

Single issue: £1.15. Six-issue subscription: £6.50. Cheques/POs payable to Emjay, 17 Langbank Avenue, Rise Park, Nottingham NG5 5BU.

HAVE an adventurous New Year! The Hobbit £12.95, level 9, Digital Fantasia and Acornsoft Adventures £8.95. Lothlorian, Fantasy Quest, Artic, Virgin, A&F and many more all available at discount. (SAE stating machine.) Prices fully inclusive. Chipmunk Software, 64 Cherryhill Avenue, Dundonald BT16 0JD.

TEXAS TI99/4A software. Wide range available from £3.95. Send s.a.e. for list. Apex Software (MA), Swiss Cottage, Hastings Road, St. Leonards-on-Sea, Sussex TN38 8EA.

DISPLAY AD INDEX

| | |
|-------------------------------|---------|
| A | |
| Apex Trading | 49 |
| Applications | 47 |
| Automata | 52 |
| C | |
| Carnell Software | 12 & 13 |
| Chipmunk Software | 49 |
| Crystal Computing | 16 |
| D | |
| D.G.H. Software Centre | 8 |
| Digital Fantasia | 4 |
| Doric Computer Services | 33 |
| Dragon Dungeon | 21 |
| Duckworth | 44 |
| E | |
| Eight Day Software | 44 |
| EMJAY | 49 |
| G | |
| Gemtime | 44 |
| Gilsoft | 39 |
| I | |
| Interface | 18 |
| L | |
| Level 9 | 2 |
| M | |
| Microl | 36 & 37 |
| Mikro-Gen | 39 |
| N | |
| Nathan | 47 |
| S | |
| S.C.R. Adventures | 42 |
| Salamander | 51 |
| Richard Shepherd | 26 & 27 |
| W | |
| Wintersoft | 15 |

Here's my classified ad.

(Please write your copy in capital letters on the lines below.)

| | | | |
|-------|-------|--|-------|
| £0.20 | £0.40 | £0.60 | £0.80 |
| £1.00 | £1.20 | £1.40 | £1.60 |
| £1.80 | £2.00 | £2.20 | £2.40 |
| £2.60 | £2.80 | £3.00 | £3.20 |
| £3.40 | £3.60 | £3.80 | £4.00 |
| £4.20 | £4.40 | Please continue on a separate sheet of paper | |

I make this..... words, at 20p per word so I owe you £

Name

Address

.....

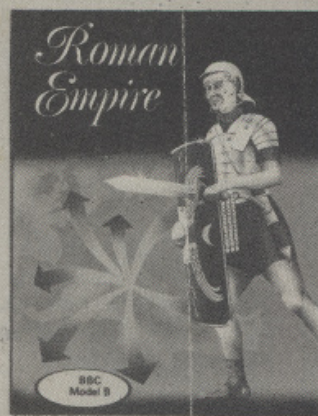
.....

Telephone

Please cut out and send this form to: Classified Department, *Micro Adventurer*, 12-13 Little Newport Street, London WC2R 3LD

COMPETITION CORNER

Tony Roberts tests
your skill — send
your answers to
Competition Corner,
Micro Adventurer,
12-13 Little Newport
St, London WC2R
3LD



The best 20 answers we receive will win a
copy of Roman Empire from Lothlorien.

This adventure is available for the
Spectrum 16K, BBC-B, Dragon 32, Atari
400/800 48K and the Tandy Colour
32K/ZX 81 16K — so let us know which
version you want when you send in your
competition entry.

Tisch sets sights on larger ring

TISCH, the black dragon, has actually been feeding you since last month's issue. She's mightily pleased that you succeeded in obtaining for her the second of the ancient Rings of Power.

As a reward (in addition to the baubs that she allowed you to keep from your previous exploits) she has flown out on two hunting missions bringing you back black, charred slabs of meat torn from some strangely shaped beast. But it's food and by now the stench that seems to be everywhere in the cave where she keeps you imprisoned has become bearable enough to permit eating.

However, it seems that there are more of the Rings ... at least one more because Tisch has given you this blood-stained map with the symbol of the Ring clearly marked in the central room.

November winners

HERE are the winners and the solution to the November competition: J. Pinfield, Droitwich; T. Briggs, Lyden; Stephen Marriott, New Duston; David Barr, Antrim; Barbara Logan, Northwood Hills; Jonathan Walford, Chelmsley Wood; S. Vickers, St Bees; S. Whitelaw, Basildon; Jeff Bird, Morayshire; Jerry Elsmore, Woking; T. Brown, Co Wicklow; E. Furnival, Rochdale; D. Tuck, Essex; Gary Ushaw, Newcastle-upon-Tyne; Christopher Glover, Newcastle-upon-Tyne; John Connor, York; Graeme Jones, Stockport; R. McLellan, Newcastle-upon-Tyne; Jorj Malinowski, Lancashire; D. Brain, Liverpool.

The treasure comprises half the gold coins, a gold key, a diamond on a chain and the ring for Tisch.

You should have entered and moved through the hexagonals in the following order: Firework, torch, troll, barrel, trapdoor, pool, wand, Gollum, Ring, ladder, dwarf, dragon, magic word, spider, chasm, giant, gold coins, soldiers, diamond on chain and exit.

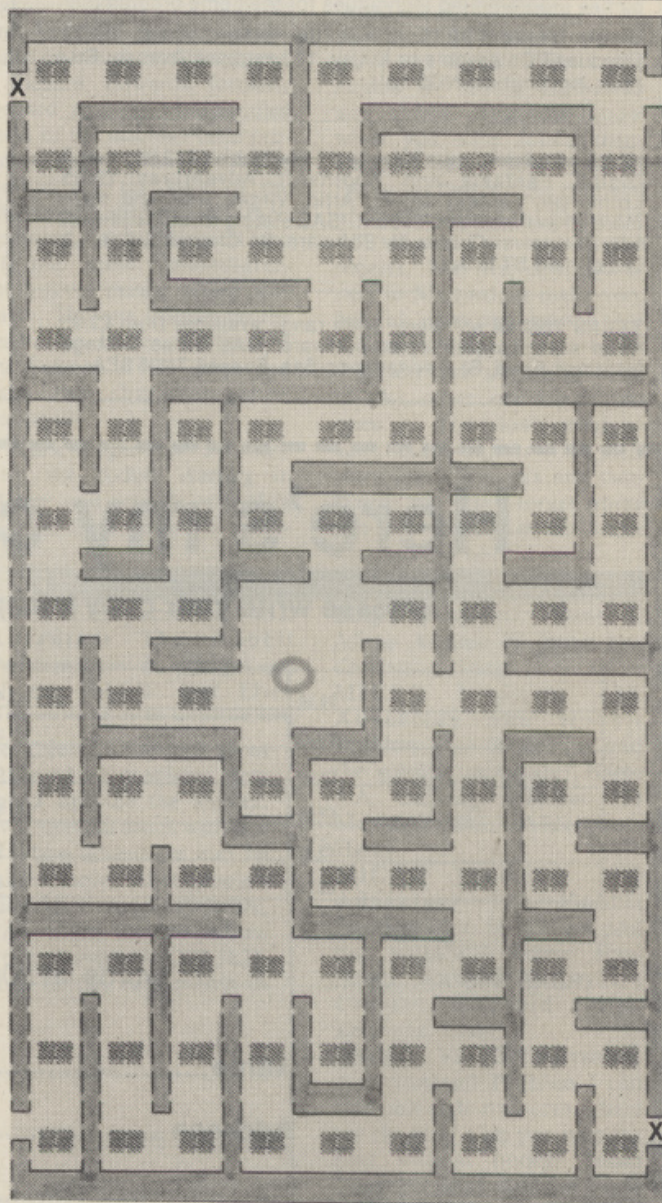
As Tisch flies you over the maze your heart drops. Outside two of the entrances lie the great, pulsing bulks of two slug-like Pogg, which can move as fast as a man, leaving a corrosive trail as deadly to you as it is to them.

They're lying at opposite corners of the maze for their own safety. Should they ever actually touch the resultant uncontrolled chain reaction would destroy everything for miles.

The walls of the maze are too high for Tisch to pull you out once she has dropped you into the central room so you need to make your own way to one of the entrances carrying the Ring. But the Ring is enormous. It will make you much slower than the Pogg if they come after you. As Tisch drops you the Pogg rush into the maze, both trying to cut you off from the entrance through which they enter and the one opposite. They know that you can't run down a passageway already marked with their trails even if you can jump over the trail at a crossroad.

The only hope for you is to let one or both of the Pogg see you and divert it toward the trail of the other as it chases you. You should be able to keep just ahead of it provided you don't try to carry the Ring at the same time. With both Pogg dead you must leave a route back to fetch the Ring and to get out of the maze.

Of course as soon as the first Pogg sees you the other one will hear the commotion and



come toward you by the shortest route no matter how you move. And if they actually meet you're dead anyway.

It takes a minute for you to move from square to square in the maze ... how many minutes will it take before you finally get out with the ring?

Your entry must arrive by

the last working day in January.

The winners and the solution will be published in our March issue.

You may only enter once. Entries will not be acknowledged and we cannot enter into correspondence on the result. ☐

THE DAN DIAMOND TRILOGY

My name is Diamond, Dan Diamond, and this is my story. A story of beautiful mermaids, bored robots and dank, dark dungeons. A story that started one muggy day in New York, and like the Big Apple, it's rotten to the core.

The Dan Diamond Trilogy is three separate adventure games. Each game may be played on its own, but clues may be found in the earlier adventures which may help later on. Each game comes with a lavishly illustrated 20-page case file, and hints (both helpful and misleading) which have been hidden in the illustrations.

Part I. Franklin's Tomb, in which our hero receives a mysterious plea for help which leads him to a hidden tomb and the mystery of the stargate.

Part II. Lost in Space, in which our hero finds himself stranded on a derelict spacecraft, doomed to travel endlessly through space, or find a way out.

Part III. Fishy Business, in which our hero lands on a watery planet, discovers the source of the plea for help and saves the day.

All three programs cost £9.95 each and are available for the DRAGON 32, BBC MODEL B and 48k ORIC-1 microcomputers. (note: Fishy Business for the BBC and ORIC will be available February 1984).

Cheques or postal orders payable to:

Salamander

SOFTWARE

17 Norfolk Road, Brighton, East Sussex, BN1 3AA.

Look out for Dan Diamond's next Adventure Series "Franklin in Wonderland" Available Spring 1984

*"It must be the most consistently
enjoyable adventure game
I've ever played"*
- Computer Choice
(Program of the Month) -

AUTOMATA U.K. LTD, THE CREATORS OF
PIMANIA

PRESENT THE COMPUTER
ENTERTAINMENT WHERE
DREAMS COME TRUE!

MY NAME IS UNCLE

GROUCHO

YOU WIN A FAT CIGAR

CARTOONS/MUSIC/HUMOUR/BRAIN-TWISTERS.
CONCORD-QE2-HOLIDAY PRIZE & FREE HIT
RECORD. "GROUCHO" from AUTOMATA U.K.
27 Highland Road, Portsmouth PO4 9DA.
tel. 0705 735242 (credit card sales)

STARRING **GROUCHO, THE PIMAN**
& A GALAXY OF HOLLYWOOD STARS!