## Best Strategy

The best strategy (for both parties) is to head for the place closest to the city on the perpendicular bisector of the line joining the knight and the dragon (as shown in the diagram):
TO KNIGHT.MOVE MAKE "DX XCOR MAKE "DY TELL :DRAGON GNIGT MAKE "KX XCOR MAKE YCOR TELL TELL :CITY MAKE "CX XCOR MAKE "CY YCOR
MAKE "SX (:DX+:KX)/2
MAKE "SY (:DY + :KY)/2
MAKE "VX (:DY-:KY)
MAKE "VY (:KX - :DX)
MAKE "FACT $(: V X *(: C D-: S X)+: V Y$ *
(:CY-:SY))/((:VX*:VX)* $\left(: V X^{*}: V X\right)+$
(:VY*:VY)* (:VY*:VY)
MAKE "Y:SY + :FACT* : VY
TELL : KNIGHT SETH TOWARDS : $X: Y$
FD 10
END

## Improved Move

An improved knight move, in which the knight heads to cut off the dragon:
TO KNIGHT.MOVE
TELL: DRAGON MAKE "X XCOR MAKE "Y YCOR
TELL: CITY
MAKE "BEARING TOWARDS $: X: Y$
TELL:KNIGHT SETH $270+$ BEARING IF $\mathrm{XCOR}<:$ X THEN LEFT 180 FD 10
END

## Keyboard Control <br> Keyboard control of the dragon:

## TO DRAGON.MOVE <br> TELL: DRAGON MOVE READKEY FD 10

## END

TO MOVE: DIR
IF: DIR = "W THEN SETH 0
IF: $\mathrm{DIR}=$ " S THEN SETH 90
IF: $D I R=$ " Z THEN SETH 180
IF: DIR = "A THEN SETH 270
END
TO READKEY
IF RC? THEN OUTPUT READCHARACTER OUTPUT"

## Logo Flavours

Spectrum LOGO
sprite graphics
Atari users should note the following differences: 1) TS? does not exist. Omit the line IF HIT? etc. in

PLAY and insert this line as the last line of

## SET.SCREEN:

WHEN TOUCHING:DRAGON :KNIGHT
[DRAGON.DESTROYED STOP]
2) There are no equivalents for BIGX, BIGY, SMALLX and SMALLY. Simply omit them.
3) For BACKGROUND use SETBG, and for

PENCOLOR use SETPC. The colour codes are
different, of course.
4) Most surprisingly TOWARDS does not exist in Atari LOGO (It is included in the LCSI versions on the Apple and the Spectrum). Therefore, replace the
lines:

## SETH TOWARDS : $X: Y$

FD 10
in FOLLOW and KNIGHT.MOVE with
MAKE "FRAC $10 /$ (SQRT $((X C O R-: X)$ * (XCOR
$\left.\left.-X)+(Y C O R-Y)^{*}(Y C O R-Y)\right)\right)$
SETPOS LIST $\left(X C O R+(X-X C O R)^{*} ;\right.$ FRAC $)$
$\left(Y C O R+(: Y-Y C O R)^{*}:\right.$ FRRAC $)$

