

# HOW TO PROGRAM MICROCOMPUTERS

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Loc	Contents	Label	Operand	Arguments	Comments
000	376 000		CPI	O	TEST FOR DIRECTION
002	372 024 000		JM	ROTIF	GO IF LEFT SHIFT
005	075		DCR	A	DECREMENT INDEX
006	370		RM	H	RETURN IF DONE
007	345		PUSH	A,L	SAVE PARTIAL RESULT
010	175		MOV		L TO A
011	037		RAR	H	SETUP CARRY
012	341		POP	A,H	RESTORE PARTIAL RES
013	174		MOV		ROTATE MS BYTE
014	037		RAR	H,A	RESTORE MS
015	147		MOV	A,L	ROTATE LS BYTE
016	175		MOV	A,L	RESTORE LS
017	037		RAR	A,L	CONTINUE
020	303 005 000		MOV	L,A	ADJUST INDEX
021	075		RAR	ROTIF	INCREMENT INDEX
024	074		MOV	A	RETURN IF DONE
025	310		JMP	A	SAVE PARTIAL RESULT
026	345		DCR	H	H TO A
027	174		INR	A,H	SETUP CARRY
030	027		RZ		RESTORE PARTIAL RES
031	341		PUSH	H	ROTATE LS BYTE
032	175		MOV	A,L	RESTORE
033	027		POP		ROTATE MS BYTE
034	157		MOV	L,A	RESTORE
035	174		RAL	A,H	CONTINUE
036	027		MOV		
037	147		RAL	A,H	
040	303 025 000		MOV	H,A	
041			JMP	ROTIF	