

Program Title SWORDS & SORCERYContributor's Name PETER O. JOHNSONAddress 265 N. MAIN ST.City ROCHESTERState/Country NHZip Code 03867

Program Description, Equations, Variables THE OBJECT OF THE GAME IS TO FIND THE DUNGEON AND RESCUE THE PRINCESS. THE HAZARDS ALONG THE WAY ARE RANDOMLY GENERATED. YOU NEED ONLY ANSWER THE QUESTIONS THAT ARE ASKED. TWO CAUTIONS: 1) THE MORE GOLD YOU HAVE, THE BETTER CHANCE YOU HAVE OF MARRYING THE PRINCESS, AND 2) FINDING THE MAGIC SWORD INCREASES YOUR CHANCE OF SURVIVAL IN ANY FIGHT OR BATTLE. YOU MUST POSSESS THE SWORD TO FIGHT THE GUARD AT THE DUNGEON.

THE PRINTER MAY BE USED IF DESIRED, SET TO MAN. FOR THIS REASON "PROMPT" HAS BEEN AVOIDED AND "AVIEW", "STOP" USED IN ITS PLACE.

HAVE FUN!

Necessary Accessories QUAD MODULE (OR 4 MEMORY MODULES)

Operating Limits and Warnings

Reference(s)

This program has been verified only with respect to the numerical example given in Program Description II. User accepts and uses this program material AT HIS OWN RISK, in reliance solely upon his own inspection of the program material and without reliance upon any representation or description concerning the program material.

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Sample Problem (Sketch if Desired)

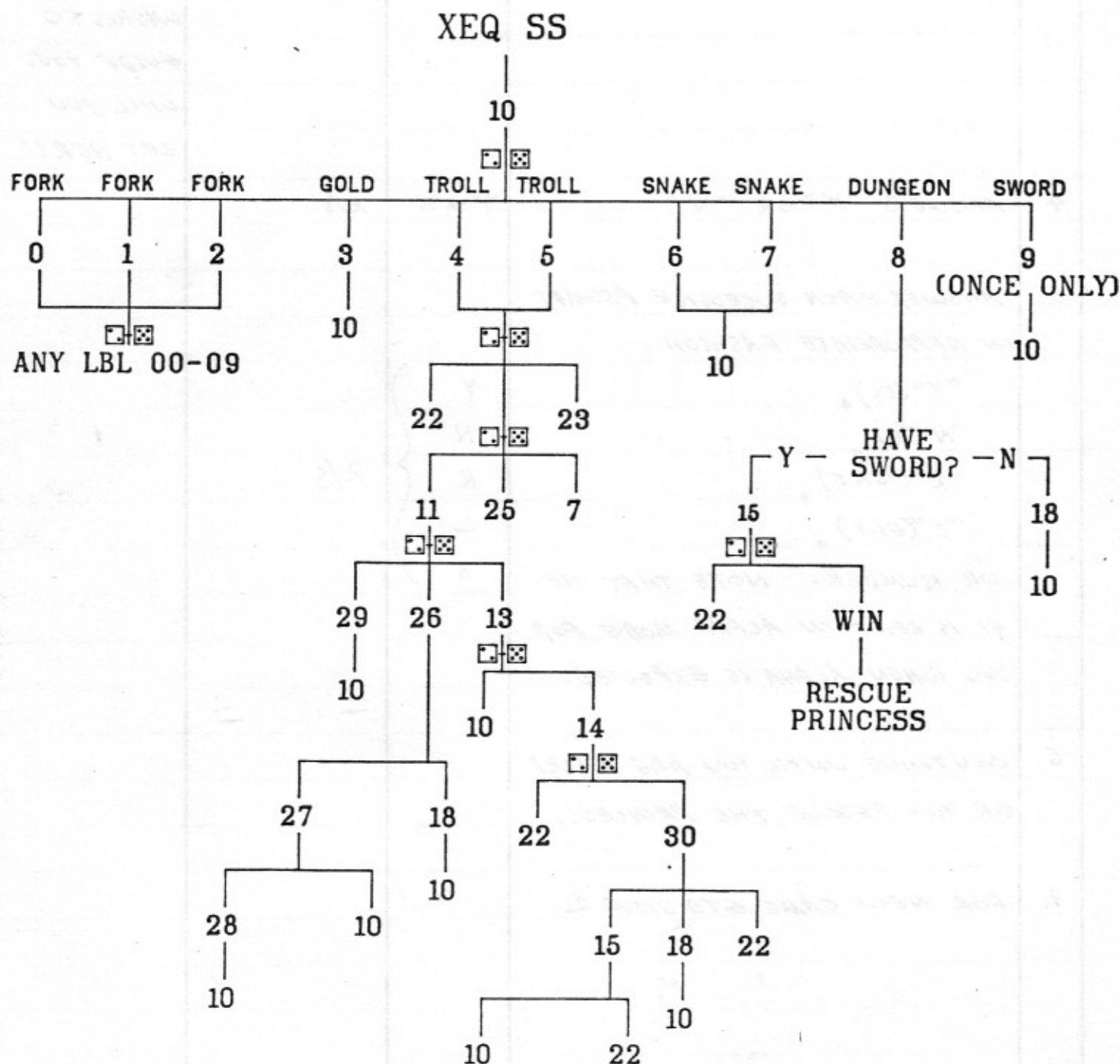
PLAY A SAMPLE GAME, USING SEED OF 0.51
 (THIS IS THE SHORTEST GAME I COULD FIND.)

SOLUTION:

Input	Function	Display	Comments
.51	XEQ "SS" R/S	SEED? A DRYAD WISHES TO GUIDE YOU WILL YOU LET HER? LETS GO YOU COME TO FORK IN PATH NYMPH SAYS R CHOOSE ***TROLL*** YOU ARE KILLED	INPUT ANY NUMBER ANSWER Y(ES) OR N(O) CHOOSE R(IGHT) OR L(EFT)
Y	R/S		
R	[R/S]		

THIS GAME IS RUN BY A RANDOM NUMBER GENERATOR THAT SENDS THE PLAYER FROM LABEL TO LABEL. THE FOLLOWING CHART SHOWS THE POSSIBLE PATTERNS THE GAME MAY TAKE.

EACH NUMBER IS A LABEL NUMBER.
THE DICE SYMBOL INDICATES A RANDOM NUMBER GENERATED.



SIZE:
(HP-41C) 008

STEP	INSTRUCTIONS	INPUT	FUNCTION	DISPLAY
1	ENTER PROGRAM			
2	INITIALIZE PROGRAM		☒ EQ "SS"	SEED?
3.	INPUT ANY POSITIVE SEED	A.4444	R/S	"A DRYAD WISHES TO GUIDE YOU. WILL YOU LET HER?"
4	ANSWER "Y" OR "N"	"Y" OR "N"	R/S	
5.	ANSWER EACH SUCESSIVE PROMPT IN APPROPRIATE FASHION:			
	"Y" (ES),	Y	R/S	
	"N" (O),	N		
	"R" (IGHT),	R		
	"L" (EFT),	L		
	OR NUMBER. NOTE THAT HP-41 IS LEFT IN ALPHA MODE FOR YOU WHEN ALPHA IS EXPECTED.	n		
6.	CONTINUE UNTIL YOU ARE KILLED OR YOU RESCUE THE PRINCESS.			
7.	FOR NEW GAME, GO TO STEP 2			

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STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS	STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS
01	LBL "SS"			43	AVIEW		
02	FIX 0			44	GTO 10		
03	.008		INITIALIZE	45	LBL 00		
04	STO 00			46	LBL 01		FORK IN
05	LBL 16			47	LBL 02		PATH
06	CF IND 0			48	SF 08		
07	ISG 00			49	LBL 10		
08	GTO 16			50	XEQ 17		
09	CF 29			51	5		
10	0			52	X>Y?		
11	STO 00			53	GTO 19		
12	STO 01			54	"L"		
13	STO 04			55	GTO 20		
14	STO 05			56	LBL 19		
15	STO 07			57	"R"		
16	.09			58	LBL 20		
17	STO 06			59	ASTO X		
18	"SEED?"			60	"YOU COM		
19	PROMPT			E TO "			
20	STO 03			61	"FORK I		
21	" A DRYA			N PATH"			
D WISHES"			CHOOSE	62	AVIEW		
22	AVIEW		GUIDE	63	PSE		
23	" TO GUI			64	FS? 01		
DE YOU "				65	"NYMPH"		
24	AVIEW			66	FC? 01		
25	"WILL YO			67	"LOT"		
U LET HE"				68	"F SAYS		
26	"FR?"			69	ARCL X		
27	AVIEW			70	AVIEW		
28	AON			71	PSE		
29	STOP			72	"CHOOSE"		
30	AOFF			73	AVIEW		
31	ASTO X			74	AON		
32	"Y"			75	STOP		
33	ASTO Y			76	AOFF		
34	X=Y?			77	XEQ 17		
35	SF 01			78	FC?C 08		
36	X=Y?			79	GTO IND		
37	1			X			
38	FS? 01			80	1		
39	STO 00			81	X>Y?		
40	"LETS GO			82	GTO 12		
41	FC? 01			83	RDN		
42	"F, You CAD"			84	4		
				85	X>Y?		
				86	GTO 10		

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STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS	STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS
87	GTO 11			131	AVIEW		
88	LBL 04			132	PSE		
89	LBL 05		TROLL	133	"YOUVE G		
90	"***TROL			ONE "			
L***"				134	AVIEW		
91	AVIEW			135	CLA		
92	XEQ 17			136	ARCL 07		
93	FS? 00			137	"F LEAGU		
94	1			ES"			
95	FS? 00			138	AVIEW		
96	+			139	PSE		
97	1			140	PSE		
98	X>Y?			141	RTN		
99	GTO 22			142	LBL 08		DUNGEON
100	RDN			143	"YOU ARE		
101	5			AT THE"			
102	X>Y?			144	"F DUNGE		
103	GTO 23			ON"			
104	"THE TRO			145	AVIEW		
LL IS DE"				146	"THE GUA		
105	"HAD"			RD CHALL"			
106	AVIEW			147	"FENGES		
107	LBL 24			YOU"			
108	XEQ 17			148	AVIEW		
109	3			149	PSE		
110	X>Y?			150	FS? 00		
111	GTO 11			151	GTO 15		
112	RDN			152	"YOU ARE		
113	6			UNARMED"			
114	X>Y?			153	AVIEW		
115	GTO 25			154	"YOU FLE		
116	GTO 07			E"			
117	LBL 23			155	AVIEW		
118	XEQ 45			156	GTO 18		
119	GTO 24			157	LBL 09		MAGIC SWORD
120	LBL 06			158	FS? 00		
121	LBL 07		SNAKE	159	GTO 10		
122	"---SNAK			160	"YOU FIN		
E---"				D A MAGI"			
123	AVIEW			161	"FC SWOR		
124	XEQ 45			D"			
125	GTO 10			162	AVIEW		
126	LBL 45			163	SF 00		
127	"YOU ARE			164	GTO 10		
HURT"				165	LBL 25		MEET GIRL
128	AVIEW			166	XEQ 17		
129	PSE			167	"YOU MEE		
130	"YOU MUS			T A "			
T REST"				168	"F-SLAVE		
				GIRL"			

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STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS	STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS
169	AVIEW			213	AVIEW		
170	PSE			214	GTO 10		
171	LBL 26			215	LBL 18		
172	3			216	"PANT"		
173	X<Y?			217	AVIEW		
174	GTO 27			218	CLA		
175	TONE 0			219	AVIEW		
176	"<UGH>"			220	"PANT"		
177	AVIEW			221	AVIEW		
178	"-RUN-"			222	CLA		
179	AVIEW			223	AVIEW		
180	GTO 18			224	"PANT"		
181	LBL 27			225	AVIEW		
182	TONE 9			226	CLA		
183	"*WOW*"			227	AVIEW		
184	AVIEW			228	GTO 10		
185	TONE 9			229	LBL 28		
186	XEQ 17			230	"SHE HAT		
187	3				ES YOU"		
188	X>Y?			231	AVIEW		
189	GTO 28			232	"SHE FLE		
190	"FUN NIG				ES"		
	HT"			233	AVIEW		
191	AVIEW			234	GTO 10		
192	"MUST RE			235	LBL 11		
	ST"			236	"YOU RUN		PIT
193	AVIEW				INTO A "		
194	1			237	"HPIT"		
195	ST+ 00			238	AVIEW		
196	RCL 00			239	XEQ 17		
197	5			240	2		
198	X>Y?			241	X>Y?		
199	SF IND 0			242	GTO 29		
	0			243	"CALL FO		
200	"ZZ"				R HELP "		
201	AVIEW			244	AVIEW		
202	"ZZ"			245	"HELP"		
203	AVIEW			246	AVIEW		
204	"ZZ"			247	TONE 8		
205	AVIEW			248	"HELP"		
206	"ZZ"			249	AVIEW		
207	AVIEW			250	TONE 9		
208	"ZZ"			251	"HELP"		
209	AVIEW			252	AVIEW		
210	PSE			253	TONE 5		
211	PSE			254	PSE		
212	"TIME TO			255	"A ROPE		
	GO"				HAS BEEN"		

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STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS	STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS
256	"F LOWER			294	0		
ED"				295	STO 01		
257	AVIEW			296	XEQ 17		
258	XEQ 17			297	3		
259	4			298	X>Y?		
260	X>Y?			299	GTO 14		
261	GTO 13			300	"AND FRE		
262	"YOU'RE R			ES YOU"			
ESCUEO "				301	AVIEW		
263	"F-BY A W			302	PSE		
OMAN"				303	PSE		
264	AVIEW			304	GTO 10		
265	XEQ 17			305	LBL 14		
266	GTO 26			306	"YOU'RE S		SATYRS
267	LBL 29			OLD TO T"			
268	"-YOU'RE			307	"HE SAT		
OUT-"				YRS"			
269	AVIEW			308	AVIEW		
270	PSE			309	PSE		
271	GTO 10			310	RCL 00		
272	LBL 12			311	X=0?		
273	LBL 03		GOLD	312	GTO 44		
274	"\$\$\$GOL			313	"THEY TA		
D\$\$\$"				KE YOUR "			
275	AVIEW			314	"WOMEN"		
276	"HOW MAN			315	AVIEW		
Y \$ACK\$ "				316	SF 05		
277	AVIEW			317	0		
278	"WILL YO			318	STO 00		
U TAKE?"				319	CF 04		
279	AVIEW			320	PSE		
280	STOP			321	CF 03		
281	ST+ 01			322	PSE		
282	GTO 10			323	CF 02		
283	LBL 13			324	PSE		
284	"A GOBLI			325	CF 01		
N HAULS "				326	CF 07		
285	"FYOU OU			327	LBL 44		
T"				328	XEQ 17		
286	AVIEW			329	3		
287	PSE			330	X>Y?		
288	RCL 01			331	GTO 22		
289	X=0?			332	LBL 30		
290	GTO 14			333	CF 05		
291	"HE TAKE			334	SF 06		
S YOUR "				335	"WILL YO		
292	"F-GOLD"			U FIGHT "			
293	AVIEW			336	AVIEW		

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STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS	STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS
337	"THEIR C			379	+		
	HAMPION?"			380	XEQ IND		
338	AON			X			
339	AVIEW			381	AVIEW		
340	STOP			382	ISG 02		
341	AOFF			383	GTO 31		
342	ASTO X			384	RCL 05		
343	"Y"			385	RCL 06		
344	ASTO Y			386	X>Y?		
345	X=Y?			387	GTO 32		
346	GTO 15			388	"YOU'RE D		
347	CF 06			OWN"			
348	XEQ 17			389	AVIEW		
349	FS? 00			390	TONE 5		
350	2			391	TONE 5		
351	FS? 00			392	TONE 5		
352	+			393	TONE 4		
353	5			394	"YOU'RE D		
354	X>Y?			EAD"			
355	GTO 22			395	AVIEW		
356	"THEY RI			396	GTO 46		
	DICULE Y"			397	*LBL 32		
357	"FOU"			398	"YOU MAK		
358	AVIEW			E A "			
359	"AND CHA			399	AVIEW		
	SE YOU "			400	"LUCKY T		
360	"FOU"			HRUST"			
361	AVIEW			401	AVIEW		
362	GTO 18			402	"**HES D		
363	*LBL 15		BATTLE	EAD**"			
364	XEQ 17			403	AVIEW		
365	5			404	PSE		
366	+			405	FS?C 06		
367	1 E-3			406	GTO 10		
368	*			407	"YOU RES		
369	STO 02			CUE THE "			RESCUE
370	"THE BAT			408	"FPRINCE		THE
	TLE BEGI"			SS"			PRINCESS
371	"FNS "			409	AVIEW		
372	AVIEW			410	PSE		
373	"YOU CIR			411	"YOU'RE A		
	CLE FOR "			HERO"			
374	"FPOSITI			412	AVIEW		
	ON"			413	XEQ 21		
375	AVIEW			414	X↑2		
376	*LBL 31			415	RCL 01		
377	XEQ 17			416	X<Y?		
378	34			417	GTO 33		

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STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS	STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS
418	TONE 8			461	+		
419	FIX 0			462	5		
420	FIX 6			463	Y↑X		
421	FIX 0			464	FRC		
422	TONE 9			465	ST0 03		
423	TONE 9			466	10		
424	TONE 9			467	*		
425	"SHE WED			468	INT		
	S YOU..."			469	ST+ 07		
426	AVIEW			470	RTN		
427	XEQ 21			471	LBL 48		
428	2			472	"YOU'RE 0		
429	+				UT OF "		
430	X↑2			473	"FOOD"		
431	"AND HAS			474	AVIEW		
	"			475	RTN		
432	ARCL X			476	LBL 34		
433	"F KIDS"			477	"YOU PAR		FIGHT
434	AVIEW				RY, "		"COMMENTARY"
435	GTO 46			478	AVIEW		
436	LBL 33			479	"THEN AT		
437	"YOU LIV				TACK"		
	E POOR B"			480	1		THESE LABELS
438	"FUT HAP			481	ST+ 04		ARE RANDOMLY
	PY"			482	RTN		CALLED FROM
439	AVIEW			483	LBL 35		STEP 380 TO
440	GTO 46			484	"HE TRIE		DISPLAY "BLOW
441	LBL 17				S A"		BY BLOW"
442	ISG 06		RANDOM NO.	485	AVIEW		ACCOUNT OF
443	GTO 47		GENERATOR	486	"HEAD CU		FIGHT.
444	"YOU STA				T"		
	RVE TO "			487	1		
445	"FDEATH"			488	ST+ 05		
446	TONE 5			489	RTN		
447	TONE 5			490	LBL 36		
448	TONE 5			491	"YOU DUC		
449	TONE 4				K"		
450	AVIEW			492	AVIEW		
451	GTO 46			493	"UNDER H		
452	LBL 47				IS SWORD"		
453	60			494	1		
454	RCL 06			495	ST+ 04		
455	INT			496	RTN		
456	X=Y?			497	LBL 37		
457	XEQ 48			498	"HE STAG		
458	LBL 21				ERS"		
459	PI			499	AVIEW		
460	RCL 03			500	"AWAY"		
				501	1		

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PROGRAM LISTING

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STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS	STEP/ LINE	KEY ENTRY	KEY CODE (67/97 only)	COMMENTS
502	ST+ 04			540	RTN		
503	RTN			541	LBL 43		
504	LBL 38			542	"HE STAB		
505	"YOU SCO			543	AVIEW		
506	RE"			544	"AT YOUR		
507	AVIEW			545	BODY"		
508	"TO HIS			546	3		
509	BODY"			547	ST+ 05		
510	2			548	RTN		
511	ST+ 04			549	LBL 22		
512	RTN			550	TONE 5		
513	LBL 39			551	TONE 5		
514	"YOU STO			552	TONE 4		
515	P"			553	"YOU ARE		
516	AVIEW			554	KILLED "		
517	"HIS BLO			555	FS?C 05		
518	W"			556	"FANYWAY		
519	AVIEW			557	AVIEW		
520	"ON YOUR			558	LBL 46		
521	SWORD"			559	FIX 3		
522	1			560	STOP		
523	ST+ 04				END		
524	RTN						
525	LBL 40						
526	"HE TAKE						
527	S"						
528	AVIEW						
529	"A WILD						
530	CUT"						
531	2						
532	ST+ 05						
533	RTN						
534	LBL 41						
535	"YOUVE"						
536	AVIEW						
537	"SLASHED						
538	"						
539	AVIEW						
540	"HIS ARM						
541	"						
542	2						
543	ST+ 04						
544	RTN						
545	LBL 42						
546	"HE ATTA						
547	CKS"						
548	4						
549	ST+ 05						

YOU ARE
KILLED

80

90

00

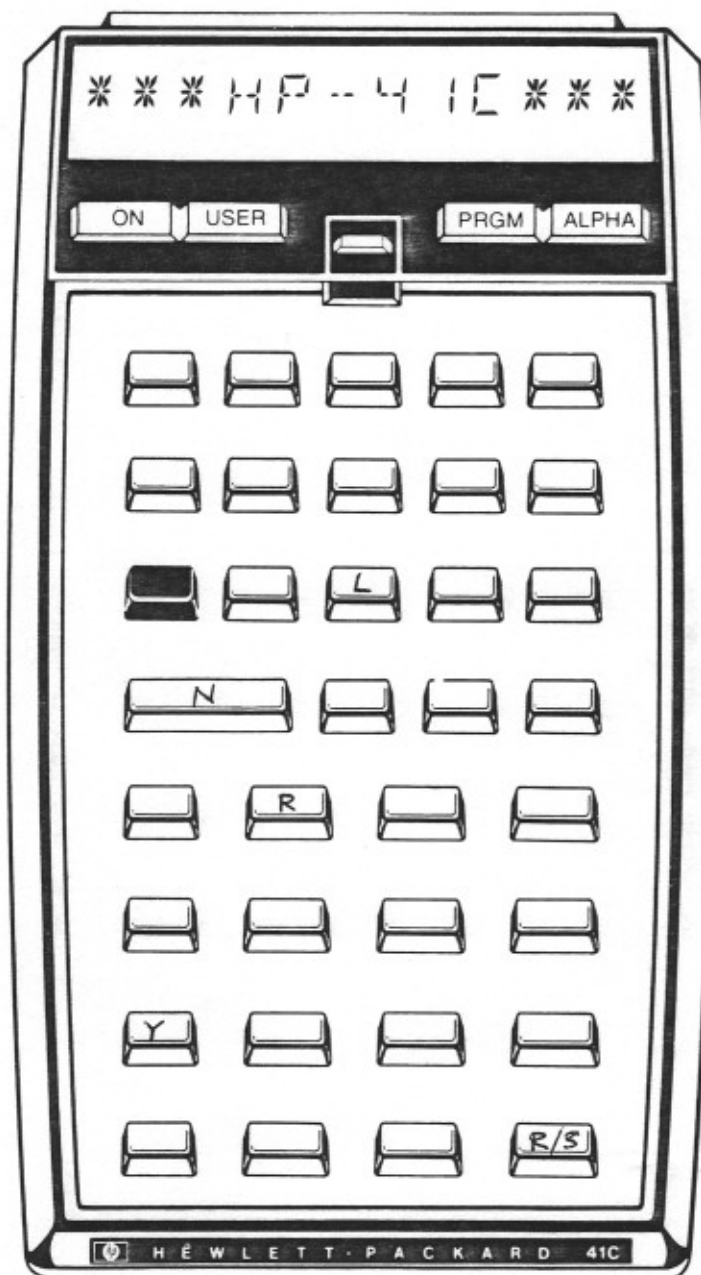
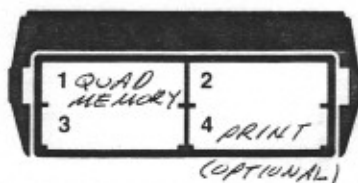
01763C

REGISTERS, STATUS, FLAGS, ASSIGNMENTS

DATA REGISTERS		STATUS			
00	# OF WOMEN	SIZE 008	TOT. REG. 289	USER MODE	
01	# OF SACKS OF GOLD	ENG	FIX 0,3,6 SCI	ON	OFF
02	FIGHT 15% SEED	DEG	RAD	GRAD	
03	RANDOM # SEED	FLAGS # INIT S/C SET INDICATES CLEAR INDICATES			
04	YOUR FIGHT SCORE				
05	GUARD'S FIGHT SCORE	00	C	HAVE SWORD	NO SWORD
06	FOOD 15% SEED	05	C	KILLED "ANYWAY"	KILLED
07	DISTANCE TRAVELLED	06	C	SATYR FIGHT	DUNGEON FIGHT
		29	C		NO DECIMAL POINT
		08	C	"FORK IN PATH" ROUTINE	ANY OTHER ROUTINE
		01	C	} RUNNING TALLY OF HOW MANY WOMEN YOU HAVE	
		02	C		
		03	C		
		04	C		
		ASSIGNMENTS FUNCTION KEY FUNCTION KEY			

KEYBOARD CARD LABELING

KEYBOARD

SYSTEM
CONFIGURATION

CARD

