

```
01 LBL "HEX" ;Cybernetic Hexapawn Game Program
02 DEG
03 CF 27
04 CF 29
05 FIX 4
06 SF 11
07 OFF
08 LBL C
09 SF 12
10 " HEXAPAWN"
11 AVIEW
12 CLRG
13 RAD
14 .031642758
15 STO 01
16 .637048152
17 STO 02
18 30
19 STO 09
20 201201201
21 STO 20
22 STO 00
23 10
24 STO 21
25 PI
26 SIN
27 TAN
28 "FRC SEED ?"
29 PROMPT
30 CLA
31 STO 08
32 SF 29
33 FS? 55
34 XEQ 99
35 SF 05
36 XEQ 44
37 SF 27
38 "READY"
39 PROMPT
40 LBL E
41 2
42 RCL 25
43 FRC
44 RCL 09
45 *
46 FIX 1
47 RND
48 Y^X
49 ST+ IND 25
50 "\1D" ;1D hex = Not Equal Sign
51 SF 06
52 XEQ 33
53 ADV
54 RTN
55 LBL B
56 RCL 20
57 SF 01
58 LBL A
59 " I"
60 X=0?
61 GTO 55
62 CF 00
63 STO 22
64 STO 00
65 FS?C 01
66 GTO 88
67 SF 12
```

```
68 " WHITE"
69 XEQ 44
70 LBL 88
71 RCL 08
72 9821
73 *
74 .211327
75 +
76 FRC
77 STO 08
78 3
79 STO 03
80 *
81 INT
82 STO 25
83 STO 05
84 RCL 20
85 RCL 22
86 X#Y?
87 GTO IND 25
88 LBL 13
89 SF 00
90 RCL 05
91 3
92 *
93 1
94 +
95 STO 25
96 XEQ 05
97 XEQ 08
98 GTO 13
99 LBL 00
100 8
101 STO 25
102 RCL 00
103 1
104 %
105 LBL 04
106 STO 07
107 FRC
108 .2
109 X=Y?
110 XEQ 05
111 RCL 07
112 FIX 1
113 RND
114 RCL 21
115 /
116 DSE 25
117 GTO 04
118 GTO 08
119 LBL 05
120 8
121 RCL 25
122 -
123 10^X
124 9
125 *
126 GTO 03
127 LBL 01
128 LBL 02
129 RCL IND 25
130 STO 24
131 STO 04
132 9
133 STO 25
134 STO 07
135 LBL 06
136 RCL 21
137 ST* 04
```

138 RCL 00
139 RCL 04
140 INT
141 ST- 04
142 10^X
143 /
144 INT
145 RCL 21
146 /
147 FRC
148 ST+ 07
149 1.2
150 RCL 07
151 X=Y?
152 XEQ 07
153 FRC
154 RCL 21
155 *
156 STO 07
157 DSE 25
158 GTO 06
159 LBL 08
160 1
161 ST- 03
162 ST- 05
163 " YOU"
164 RCL 03
165 X=0?
166 GTO 55
167 RCL 05
168 X<0?
169 2
170 STO 05
171 FS? 00
172 RTN
173 STO 25
174 GTO IND 25
175 LBL 07
176 RCL 24
177 8
178 RCL 25
179 -
180 10^X
181 *
182 FRC
183 RCL 21
184 *
185 FRC
186 LASTX
187 INT
188 10^X
189 ST+ 00
190 X<>Y
191 RCL 21
192 *
193 INT
194 10^X
195 LBL 03
196 ST- 00
197 ST- 00
198 RCL 25
199 STO 23
200 RCL 00
201 STO 06
202 XEQ 09
203 XEQ 09
204 1 E3
205 *
206 X<>Y
207 RCL 06

208 XEQ 11
209 RCL 06
210 $X \leq Y?$
211 $X < > Y$
212 1 E6
213 *
214 +
215 +
216 SIN
217 3 E2
218 *
219 ABS
220 .2
221 -
222 INT
223 RCL 09
224 /
225 RCL 21
226 +
227 STO 25
228 FRC
229 RCL 09
230 *
231 RND
232 2
233 $X < > Y$
234 Y^X
235 RCL IND 25
236 $X < > Y$
237 /
238 INT
239 2
240 /
241 FRC
242 $X \neq 0?$
243 GTO 10
244 LBL 77
245 SF 05
246 SF 12
247 " BLACK"
248 TONE 6
249 XEQ 44
250 STOP
251 LBL 09
252 1 E3
253 ST/ 06
254 RCL 06
255 FRC
256 ST- 06
257 *
258 ENTER
259 LBL 11
260 2
261 -
262 RCL 21
263 /
264 FRC
265 $X = 0?$
266 GTO 77
267 RDN
268 RTN
269 LBL 10
270 RCL 23
271 STO 25
272 RCL 22
273 STO 00
274 RCL 07
275 RTN
276 LBL 44
277 AVIEW

```

278 FC? 55
279 PSE
280 CF 12
281 " " ;4 spaces
282 LBL 33
283 FIX 0
284 RCL 00
285 LOG
286 INT
287 8
288 X>Y?
289 >"0" ;Append number 0
290 RDN
291 7
292 X>Y?
293 >"0" ;Append number 0
294 RDN
295 6
296 X>Y?
297 >"0," ;Append number 0, comma
298 ARCL 00
299 AVIEW
300 FS?C 06
301 RTN
302 RCL 00
303 1 E3
304 /
305 FRC
306 LASTX
307 INT
308 1 E3
309 /
310 FRC
311 LASTX
312 INT
313 1 E3
314 /
315 26.034
316 STO 37
317 LBL 14
318 RDN
319 RCL 21
320 STO IND 37
321 *
322 INT
323 ST+ IND 37
324 RDN
325 LASTX
326 FRC
327 STO T
328 ISG 37
329 GTO 14
330 FC? 55
331 GTO 15
332 SF 12
333 3
334 STO 37
335 26
336 124
337 "--" ;2 dashes
338 LBL 17
339 XEQ 16
340 XROM 29,02 ;ACCHR
341 LBL 18
342 4
343 XROM 29,23 ;SKPCOL
344 RDN
345 RCL IND Y
346 STO L
347 RDN

```

```
348 XEQ IND L
349 RDN
350 3
351 XROM 29,23 ;SKPCOL
352 RDN
353 XROM 29,02 ;ACCHR
354 ISG Y
355 RAD
356 DSE Z
357 GTO 18
358 XROM 29,10 ;PRBUF
359 3
360 STO T
361 RDN
362 DSE 37
363 GTO 17
364 XEQ 16
365 LBL 15
366 " YOU"
367 26.028
368 11
369 XEQ 11
370 " I"
371 32.034
372 12
373 XEQ 22
374 0
375 STO 37
376 26.034
377 10
378 LBL 23
379 RCL IND Y
380 X#Y?
381 ST+ 37
382 RDN
383 ISG Y
384 GTO 23
385 RCL 37
386 11
387 /
388 FRC
389 X=0?
390 GTO "Y" ;You (Human) Win (Line 439)
391 RCL 37
392 12
393 /
394 FRC
395 X=0?
396 GTO "M" ;Me (Computer) Win (Line 436)
397 ADV
398 ADV
399 ADV
400 ADV
401 FC?C 05
402 RTN
403 TONE 7
404 TONE 6
405 RTN
406 LBL 10
407 7
408 XROM 29,23 ;SKPCOL
409 RTN
410 LBL 11
411 RCL 35
412 XROM 29,04 ;ACSPEC
413 RTN
414 LBL 12
415 RCL 36
416 XROM 29,04 ;ACSPEC
417 RTN
```

```
418 LBL 16
419 XROM 29,02 ;ACCHR
420 XROM 29,01 ;ACA
421 XROM 29,02 ;ACCHR
422 XROM 29,01 ;ACA
423 XROM 29,02 ;ACCHR
424 XROM 29,01 ;ACA
425 XROM 29,02 ;ACCHR
426 XROM 29,10 ;PRBUF
427 RTN
428 LBL 22
429 RCL IND Y
430 X=Y?
431 GTO 55
432 RDN
433 ISG Y
434 GTO 22
435 RTN
436 LBL "M" ;Me (Computer) Win
437 " I"
438 GTO 55
439 LBL "Y" ;You (Human) Win
440 " YOU"
441 LBL 55
442 BEEP
443 ">" WIN"
444 AVIEW
445 CF 00
446 CF 05
447 ADV
448 ADV
449 ADV
450 ADV
451 ADV
452 STOP
453 GTO "HEX" ;Cybernetic Hexapawn Game (Line 1)
454 LBL 99
455 93
456 STO 37
457 XEQ 98
458 STO 35
459 127
460 STO 37
461 XEQ 98
462 STO 36
463 RTN
464 LBL 98
465 64
466 XROM 29,06 ;BLDSPEC
467 64
468 XROM 29,06 ;BLDSPEC
469 106
470 XROM 29,06 ;BLDSPEC
471 RCL 37
472 XROM 29,06 ;BLDSPEC
473 106
474 XROM 29,06 ;BLDSPEC
475 64
476 XROM 29,06 ;BLDSPEC
477 64
478 XROM 29,06 ;BLDSPEC
479 END
```

037DC000F40048455880A91BA91D9C04A80B8DCF68A80CF920
484558415041574E7E8A811A101311161412171518311A1613
17101418111512321310391210111210111210119114301110
911572595BFA4652432053454544203F8E8738A81DAC37E000
63A805E0002CA81BF552454144598ECF6A1290196929429C01
6E539299F11DA806E000218F85CF679014A801CF66F3202049
67D00037A900911630AA01D00058A80CF720205748495445E
002CCF582819181211421A1211111312174069381333426891
19359014901679AE190EA80025134211409119E00005E00008
BE000118911920114C0537691A1278E00005279C016901543
9719B500B9000618901941571942B400020390999118341991
193707901594042024689304574368901543699207111A1227
78E0000769901542379719B700091193039305F420594F5523
67D0003725661235AC00859119AE1908901818901941574269
90154269766857920071901542685704930093009019911720
36E00009E00009111B13427126E0000B264671111B16424040
59131B1242611A124168294390154091196929426E12715390
9971436812436963BB00CF4DA805A80CF72020424C41434B9F
06E0002C840A111B1395062669930642830C12419015436967
D0004D75850B901791199016302785CF2C7EAD3789A90CF420
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7F302C9B007EAA068520111B1343697668111B134369766811
1B134312161A10131491250F75901591A5426892A57566991
709625BF00AD37D0000FA80C139125121600111214F22D2DCF
11E00010A742CF1214A7577590F2917475AEF47513A75775A7
429672819771D00012A74A139170759725D00011E00010CF0F
F420594F5512161A101218001111E0000BF320204913121A10
1314001112E0001610912512161A101314001110CF1790F279
9225759672D00017902511114369671DF15990251112436967
1DF14D8F8F8F8FAB05859F079F06850B17A757850C9023A744
850D9024A74485CF10A742A741A742A741A742A741A742A74A
85CF1690F278D00037759672D0001685C000F2004DF3202049
D00037C000F20059F420594F55CF3786F57F2057494E7EA900
A9058F8F8F8F841DF348455CF6319139125E00062912311
12179125E00062912485CF621614A7461614A746111016A746
9025A746111016A7461614A7461614A746C0000D26

893 BYTES

HP-41C Cybernetic Hexapawn by Marco de Vries PPC V8 N1 P26 Jan-Feb 1981

Program Registers Needed: 128

Row 1 (1 - 5)



Row 2 (5 - 10)



Row 3 (10 - 14)



Row 4 (14 - 16)



HP-41C Cybernetic Hexapawn by Marco de Vries PPC V8 N1 P26 Jan-Feb 1981

Row 5 (16 - 20)



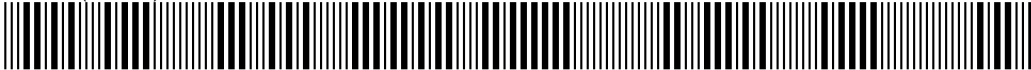
Row 6 (20 - 27)



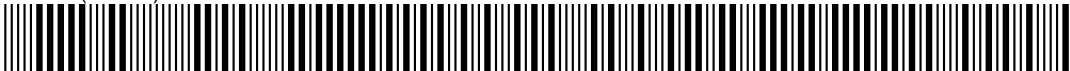
Row 7 (28 - 30)



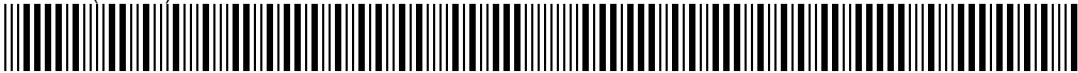
Row 8 (31 - 36)



Row 9 (37 - 42)



Row 10 (42 - 51)



Row 11 (51 - 58)



Row 12 (58 - 63)



Row 13 (64 - 68)



Row 14 (68 - 72)



Row 15 (73 - 79)



Row 16 (80 - 88)



Row 17 (89 - 97)



Row 18 (97 - 106)



Row 19 (107 - 114)



Row 20 (115 - 123)



Row 21 (124 - 133)



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Row 22 (133 - 142)



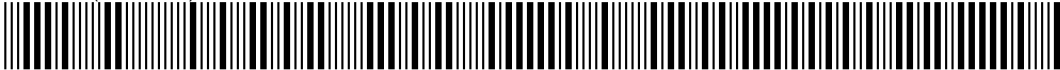
Row 23 (143 - 151)



Row 24 (152 - 159)



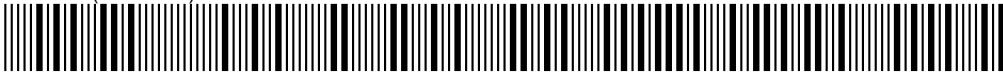
Row 25 (160 - 166)



Row 26 (166 - 174)



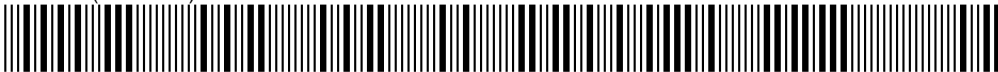
Row 27 (175 - 184)



Row 28 (185 - 195)



Row 29 (196 - 202)



Row 30 (203 - 209)



Row 31 (210 - 218)



Row 32 (219 - 228)



Row 33 (229 - 240)



Row 34 (241 - 247)



Row 35 (247 - 252)



Row 36 (252 - 261)



Row 37 (262 - 270)



Row 38 (271 - 279)



HP-41C Cybernetic Hexapawn by Marco de Vries PPC V8 N1 P26 Jan-Feb 1981

Row 39 (280 - 285)



Row 40 (286 - 294)



Row 41 (295 - 302)



Row 42 (303 - 311)



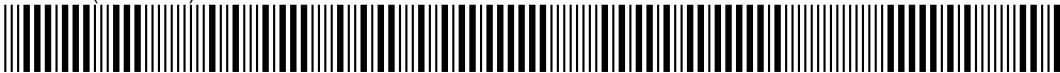
Row 43 (312 - 316)



Row 44 (317 - 326)



Row 45 (327 - 332)



Row 46 (333 - 338)



Row 47 (338 - 345)



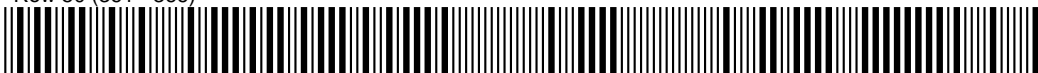
Row 48 (345 - 353)



Row 49 (354 - 360)



Row 50 (361 - 366)



Row 51 (366 - 369)



Row 52 (369 - 371)



Row 53 (372 - 376)



Row 54 (376 - 383)



Row 55 (383 - 390)



HP-41C Cybernetic Hexapawn by Marco de Vries PPC V8 N1 P26 Jan-Feb 1981

Row 56 (390 - 398)



Row 57 (399 - 408)



Row 58 (408 - 416)



Row 59 (417 - 423)



Row 60 (424 - 431)



Row 61 (431 - 436)



Row 62 (436 - 439)



Row 63 (440 - 443)



Row 64 (443 - 453)



Row 65 (453 - 457)



Row 66 (458 - 463)



Row 67 (464 - 469)



Row 68 (470 - 475)



Row 69 (476 - 479)

