

HP-41C Star Trek Program by Andrew Wright
PPC Calculator Journal V7 N8 P25 Oct 1980

```
01 LBL "S" ;Star Trek Program
02 CF 29
03 RCL 00
04 CLRG
05 STO 00
06 3 E3
07 STO 01
08 5
09 STO 02
10 STO 03
11 2
12 10^X
13 STO 14
14 STO 06
15 STO 07
16 GTO 16
17 LBL 25
18 RCL 06
19 "E DEST"
20 X<=0?
21 PROMPT
22 RCL 13
23 FC? 07
24 ST+ 02
25 RCL 02
26 SIGN
27 LASTX
28 ABS
29 RCL 06
30 5
31 /
32 X>Y?
33 X<>Y
34 8
35 X>Y?
36 X<>Y
37 R^
38 *
39 STO 02
40 3
41 Y^X
42 ST- 01
43 RCL 03
44 3
45 Y^X
46 ST- 01
47 RCL 01
48 SIGN
49 ST* 01
50 ST* 02
51 ST* 03
52 RCL 07
53 RCL 03
54 ABS
55 4
56 *
57 -
58 STO Y
59 .7
60 *
61 -
62 LASTX
63 FS?C 06
64 X<>Y
65 ST+ 05
66 X<>Y
67 ST+ 11
```

```
68 10
69 /
70 ST+ 12
71 RCL 11
72 RCL 14
73 -
74 X<=0?
75 CLX
76 ST- 11
77 ST+ 12
78 RCL 12
79 LASTX
80 -
81 X<=0?
82 CLX
83 ST- 12
84 ST+ 05
85 RCL 05
86 LASTX
87 X>Y?
88 X<>Y
89 STO 05
90 RCL 06
91 RCL 02
92 ABS
93 5
94 *
95 -
96 RCL 13
97 ST- 13
98 FC?C 07
99 CLX
100 -
101 "EXPLODE"
102 X<=0?
103 PROMPT
104 STO Y
105 .8
106 *
107 -
108 LASTX
109 FS? 00
110 X<>Y
111 ST+ 04
112 RCL 04
113 RCL 14
114 X>Y?
115 X<>Y
116 STO 04
117 R^
118 STO Y
119 .8
120 *
121 -
122 LASTX
123 FC? 01
124 X<>Y
125 ST+ 10
126 RDN
127 RCL 10
128 RCL 14
129 -
130 X<=0?
131 CLX
132 +
133 ST+ 08
134 RCL 08
135 RCL 14
136 -
137 X<=0?
```

138 CLX
139 ST- 08
140 ST+ 09
141 RCL 09
142 LASTX
143 -
144 X<=0?
145 CLX
146 ST- 09
147 ST+ 10
148 RCL 10
149 LASTX
150 X>Y?
151 X<>Y
152 STO 10
153 CF 05
154 LBL 16
155 FIX 0
156 RCL 01
157 RND
158 "R:"
159 ARCL X
160 ">" E:"
161 RCL 02
162 RND
163 ARCL X
164 ">" K:"
165 RCL 03
166 RND
167 ARCL X
168 0
169 AVIEW
170 PSE
171 PSE
172 PSE
173 CLD
174 SIGN
175 LASTX
176 ABS
177 3
178 X<=Y?
179 X<>Y
180 RDN
181 *
182 STO 13
183 GTO 18
184 LBL A
185 FS? 05
186 GTO 16
187 SF 05
188 FIX 0
189 "E:"
190 RCL 06
191 RND
192 ARCL X
193 ">" S:"
194 RCL 04
195 RND
196 ARCL X
197 AVIEW
198 PSE
199 PSE
200 "P1:"
201 RCL 08
202 RND
203 ARCL X
204 ">" P2:"
205 RCL 09
206 RND
207 ARCL X

208 AVIEW
209 PSE
210 PSE
211 "PR:"
212 RCL 10
213 RND
214 ARCL X
215 AVIEW
216 PSE
217 PSE
218 "KE:"
219 RCL 07
220 RND
221 ARCL X
222 ">" KS:"
223 RCL 05
224 RND
225 ARCL X
226 AVIEW
227 PSE
228 PSE
229 GTO 16
230 LBL B
231 RCL 02
232 X<0?
233 GTO 16
234 RCL 08
235 ST- 08
236 XEQ 22
237 GTO 18
238 LBL C
239 RCL 02
240 X<0?
241 GTO 16
242 RCL 09
243 ST- 09
244 XEQ 22
245 GTO 18
246 LBL D
247 RCL 02
248 X>0?
249 GTO 16
250 RCL 10
251 ST- 10
252 XEQ 22
253 GTO 18
254 LBL E
255 RCL 02
256 X<0?
257 GTO 16
258 RCL 08
259 ST- 08
260 RCL 09
261 ST- 09
262 2
263 /
264 +
265 XEQ 22
266 GTO 18
267 LBL F
268 FC?C 00
269 SF 00
270 GTO 16
271 LBL G
272 FC?C 01
273 SF 01
274 GTO 16
275 LBL H
276 SF 07
277 10

278 STO 13
279 CLA
280 XEQ 23
281 ST- 07
282 GTO 18
283 LBL I
284 SF 07
285 20
286 STO 13
287 CLA
288 XEQ 23
289 ST- 07
290 CLA
291 XEQ 23
292 ST- 07
293 LBL 18
294 RCL 01
295 RCL 06
296 RCL 07
297 "K DEST"
298 $X \leq 0?$
299 PROMPT
300 -
301 RCL 14
302 RCL 11
303 -
304 RCL 05
305 -
306 +
307 7
308 *
309 200
310 +
311 -
312 SIGN
313 LASTX
314 ABS
315 3
316 $1/X$
317 Y^X
318 *
319 RCL 03
320 -
321 SIGN
322 LASTX
323 ABS
324 3
325 $X \leq Y?$
326 $X < > Y$
327 RDN
328 *
329 ST+ 03
330 RCL 03
331 SIGN
332 LASTX
333 ABS
334 RCL 07
335 5
336 /
337 $X > Y?$
338 $X < > Y$
339 9
340 $X > Y?$
341 $X < > Y$
342 R^A
343 *
344 STO 03
345 RCL 07
346 2
347 /

348 RCL 05
349 X>Y?
350 SF 06
351 "BOLT "
352 XEQ 23
353 ST- 06
354 RCL 01
355 3
356 XEQ 21
357 5
358 +
359 RCL 14
360 *
361 X<=Y?
362 GTO 25
363 RCL 07
364 .7
365 *
366 RCL 11
367 X<=Y?
368 GTO 01
369 ST- 11
370 XEQ 26
371 SF 09
372 LBL 01
373 RCL 07
374 2
375 /
376 RCL 12
377 X<=Y?
378 GTO 25
379 ST- 12
380 .5
381 X<>Y
382 FS?C 09
383 *
384 XEQ 26
385 GTO 25
386 LBL 20
387 RCL 01
388 X^2
389 RCL 14
390 X^2
391 CHS
392 /
393 RCL 14
394 +
395 %
396 RCL 14
397 RCL 02
398 RCL 03
399 +
400 ABS
401 2
402 *
403 -
404 %
405 X<=0?
406 CLX
407 RTN
408 LBL 21
409 9821
410 RCL 00
411 *
412 .211327
413 +
414 FRC
415 STO 00
416 *
417 INT

418 1
419 +
420 RTN
421 LBL 22
422 XEQ 20
423 ST- 05
424 RCL 05
425 +
426 RCL 05
427 X<0?
428 CLX
429 -
430 RCL 05
431 X>0?
432 CLX
433 ST- 05
434 2
435 /
436 ST+ 07
437 XEQ 24
438 RTN
439 LBL 23
440 RCL 01
441 X^2
442 -500
443 /
444 80
445 +
446 400
447 XEQ 21
448 X<=Y?
449 >"DIR "
450 X<=Y?
451 SF 08
452 4
453 /
454 X>Y?
455 0
456 X=0?
457 RTN
458 >"HIT"
459 AVIEW
460 PSE
461 CLD
462 5
463 FS?C 08
464 10
465 RTN
466 LBL 24
467 CHS
468 FIX 0
469 RND
470 X<>Y
471 RND
472 "ENG:"
473 ARCL Y
474 >" SH:"
475 ARCL X
476 AVIEW
477 PSE
478 PSE
479 CLD
480 RTN
481 LBL 26
482 "BEAM HIT"
483 AVIEW
484 PSE
485 CLD
486 XEQ 20
487 ST- 04

488 RCL 04
489 +
490 RCL 04
491 X<0?
492 CLX
493 -
494 RCL 04
495 X>0?
496 CLX
497 ST- 04
498 2
499 /
500 ST+ 06
501 XEQ 24
502 END

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785 BYTES

HP-41C Star Trek Program by Andrew Wright PPC V7 N8 P25 October 1980

Program Registers Needed: 113

Row 1 (1 - 6)



Row 2 (7 - 17)



Row 3 (17 - 23)



Row 4 (23 - 34)



Row 5 (35 - 46)



Row 6 (46 - 55)



Row 7 (56 - 65)



Row 8 (65 - 74)



Row 9 (75 - 84)



Row 10 (84 - 96)



Row 11 (97 - 101)



Row 12 (101 - 110)



Row 13 (111 - 120)



Row 14 (121 - 131)



Row 15 (132 - 141)



Row 16 (142 - 152)



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Row 17 (153 - 159)



Row 18 (160 - 164)



Row 19 (164 - 175)



Row 20 (176 - 185)



Row 21 (185 - 191)



Row 22 (192 - 198)



Row 23 (199 - 204)



Row 24 (204 - 211)



Row 25 (212 - 220)



Row 26 (221 - 226)



Row 27 (227 - 234)



Row 28 (235 - 241)



Row 29 (241 - 246)



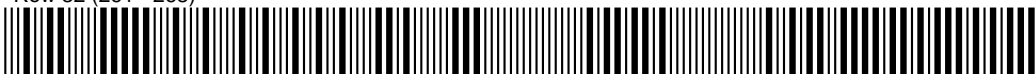
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Row 31 (253 - 261)



Row 32 (261 - 268)

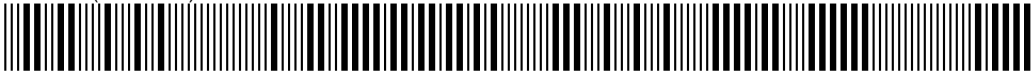


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Row 34 (274 - 280)



Row 35 (281 - 287)



Row 36 (288 - 293)



Row 37 (294 - 300)



Row 38 (301 - 311)



Row 39 (312 - 324)



Row 40 (325 - 336)



Row 41 (337 - 349)



Row 42 (350 - 353)



Row 43 (354 - 362)



Row 44 (363 - 370)



Row 45 (371 - 379)



Row 46 (380 - 386)



Row 47 (386 - 398)



Row 48 (399 - 409)



Row 49 (409 - 414)



Row 50 (415 - 423)



HP-41C Star Trek Program by Andrew Wright PPC V7 N8 P25 October 1980

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Row 52 (436 - 442)



Row 53 (442 - 449)



Row 54 (449 - 456)



Row 55 (457 - 464)



Row 56 (464 - 472)



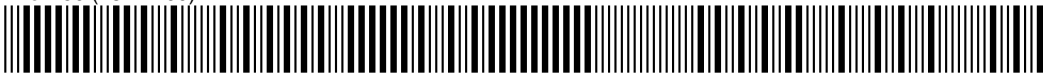
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Row 58 (477 - 482)



Row 59 (482 - 490)



Row 60 (491 - 501)



Row 61 (501 - 502)

