

```
01 LBL "SC"      ;Store Cube Initial Positioning
02 CLRG          ;Down face center color is 1
03 FIX 0         ;Front face center color is 2
04 SF 12         ;Left face center color is 3
05 CF 29         ;Back face center color is 4
06 15.9          ;Right face center color is 5
07 STO 10        ;Up face center color is 6
08 "RFD"         ;Right-Front-Down corner colors
09 XEQ 01
10 "FLD"         ;Front-Left-Down corner colors
11 XEQ 01
12 "LBD"         ;Left-Back-Down corner colors
13 XEQ 01
14 "BRD"         ;Back-Right-Down corner colors
15 XEQ 01
16 "RFU"         ;Right-Front-Up corner colors
17 XEQ 01
18 "FLU"         ;Front-Left-Up corner colors
19 XEQ 01
20 "LBU"         ;Left-Back-Up corner colors
21 XEQ 01
22 "BRU"         ;Back-Right-Up corner colors
23 XEQ 01
24 "FD"          ;Front-Down edge colors
25 XEQ 01
26 "LD"          ;Left-Down edge colors
27 XEQ 01
28 "BD"          ;Back-Down edge colors
29 XEQ 01
30 "RD"          ;Right-Down edge colors
31 XEQ 01
32 "RF"          ;Right-Front edge colors
33 XEQ 01
34 "FL"          ;Front-Left edge colors
35 XEQ 01
36 "LB"          ;Left-Back edge colors
37 XEQ 01
38 "BR"          ;Back-Right edge colors
39 XEQ 01
40 "FU"          ;Front-Up edge colors
41 XEQ 01
42 "LU"          ;Left-Up edge colors
43 XEQ 01
44 "BU"          ;Back-Up edge colors
45 XEQ 01
46 "RU"          ;Right-Up edge colors
47 XEQ 01
48 CF 12
49 ADV
50 "CUBE STORED"
51 PROMPT        ;End of program, CLP "SC"
52 LBL 01
53 > "="
54 PROMPT
55 ARCL X
56 AVIEW
57 10
58 /
59 INT
60 LASTX
61 FRC
62 10
63 *
64 ISG 10
65 STO IND 10
66 X<>Y
67 10
```

```

68 /
69 INT
70 LASTX
71 FRC
72 10
73 *
74 ISG 10
75 STO IND 10
76 X<>Y
77 X=0?
78 RTN
79 ISG 10
80 STO IND 10
81 END

```

HP-41C Rubik's Magic Cube Store by Julian Perry  
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```

00CFC000F30053438A9C00A80CA91D11151A193AF3524644E0
0001F3464C44E00001F34C4244E00001F3425244E00001F352
4655E00001F3464C55E00001F34C4255E00001F3425255E000
01F24644E00001F24C44E00001F24244E00001F25244E00001
F25246E00001F2464CE00001F24C42E00001F24252E00001F2
4655E00001F24C55E00001F24255E00001F25255E00001A90C
8FFB435542452053544F5245448E02F27F3D8E9B737E111043
687669111042960A918A71111043687669111042960A918A71
6785960A918AC0000D56

```

207 BYTES

HP-41C Rubik's Magic Cube Subr. by Julian Perry  
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```

01 LBL "X"      ;Memory-resident common routines
02 1
03 STO 01
04 STO 02
05 STO 03
06 -3
07 STO 04
08 RTN
09 LBL "Y"
10 2
11 STO 01
12 STO 02
13 CHS
14 STO 03
15 STO 04
16 RTN
17 LBL "Z"
18 3
19 STO 01
20 -1
21 STO 02
22 STO 03
23 STO 04
24 RTN
25 LBL "T"
26 STO 10
27 10
28 MOD
29 RCL IND X
30 ST+ 10
31 1
32 ST+ 14
33 RCL 15
34 X=0?
35 XEQ 09
36 XEQ IND 10
37 DSE 15

```

```

38 RTN
39 SF 21
40 TONE 6
41 AVIEW
42 LBL 09
43 12
44 STO 15
45 CLA
46 RTN
47 LBL 10
48 >"D," ;Rotate Down Face Counterclockwise 1/4 Turn
49 XEQ 07
50 GTO 08
51 LBL 20
52 >"D:" ;Rotate Down Face Through a Half Turn
53 LBL 08
54 XEQ 07
55 GTO 07
56 LBL 00
57 >"D" ;Rotate Down Face Clockwise 1/4 Turn
58 LBL 07
59 RCL 16
60 X<> 25
61 X<> 22
62 X<> 19
63 STO 16
64 RCL 17
65 X<> 26
66 X<> 23
67 X<> 20
68 STO 17
69 RCL 18
70 X<> 27
71 X<> 24
72 X<> 21
73 STO 18
74 RCL 40
75 X<> 46
76 X<> 44
77 X<> 42
78 STO 40
79 RCL 41
80 X<> 47
81 X<> 45
82 X<> 43
83 STO 41
84 RTN
85 LBL 11
86 >"F," ;Rotate Front Face Counterclockwise 1/4 Turn
87 XEQ 07
88 GTO 08
89 LBL 21
90 >"F:" ;Rotate Front Face Through a Half Turn
91 LBL 08
92 XEQ 07
93 GTO 07
94 LBL 01
95 >"F" ;Rotate Front Face Clockwise 1/4 Turn
96 LBL 07
97 RCL 16
98 X<> 20
99 X<> 31
100 X<> 30
101 STO 16
102 RCL 17
103 X<> 21
104 X<> 33
105 X<> 29
106 STO 17
107 RCL 18

```

```

108 X<> 19
109 X<> 32
110 X<> 28
111 STO 18
112 RCL 40
113 X<> 50
114 X<> 56
115 X<> 49
116 STO 40
117 RCL 41
118 X<> 51
119 X<> 57
120 X<> 48
121 STO 41
122 RTN
123 LBL 12
124 >"L," ;Rotate Left Face Counterclockwise 1/4 Turn
125 XEQ 07
126 GTO 08
127 LBL 22
128 >"L:" ;Rotate Left Face Through a Half Turn
129 LBL 08
130 XEQ 07
131 GTO 07
132 LBL 02
133 >"L" ;Rotate Left Face Clockwise 1/4 Turn
134 LBL 07
135 RCL 19
136 X<> 23
137 X<> 34
138 X<> 33
139 STO 19
140 RCL 20
141 X<> 24
142 X<> 36
143 X<> 32
144 STO 20
145 RCL 21
146 X<> 22
147 X<> 35
148 X<> 31
149 STO 21
150 RCL 42
151 X<> 52
152 X<> 58
153 X<> 51
154 STO 42
155 RCL 43
156 X<> 53
157 X<> 59
158 X<> 50
159 STO 43
160 RTN
161 LBL 13
162 >"B," ;Rotate Back Face Counterclockwise 1/4 Turn
163 XEQ 07
164 GTO 08
165 LBL 23
166 >"B:" ;Rotate Back Face Through a Half Turn
167 LBL 08
168 XEQ 07
169 GTO 07
170 LBL 03
171 >"B" ;Rotate Back Face Clockwise 1/4 Turn
172 LBL 07
173 RCL 22
174 X<> 26
175 X<> 37
176 X<> 36
177 STO 22

```

```

178 RCL 23
179 X<> 27
180 X<> 39
181 X<> 35
182 STO 23
183 RCL 24
184 X<> 25
185 X<> 38
186 X<> 34
187 STO 24
188 RCL 44
189 X<> 54
190 X<> 60
191 X<> 53
192 STO 44
193 RCL 45
194 X<> 55
195 X<> 61
196 X<> 52
197 STO 45
198 RTN
199 LBL 14
200 >"R," ;Rotate Right Face Counterclockwise 1/4 Turn
201 XEQ 07
202 GTO 08
203 LBL 24
204 >"R:" ;Rotate Right Face Through a Half Turn
205 LBL 08
206 XEQ 07
207 GTO 07
208 LBL 04
209 >"R" ;Rotate Right Face Clockwise 1/4 Turn
210 LBL 07
211 RCL 16
212 X<> 29
213 X<> 37
214 X<> 27
215 STO 16
216 RCL 17
217 X<> 28
218 X<> 39
219 X<> 25
220 STO 17
221 RCL 18
222 X<> 30
223 X<> 38
224 X<> 26
225 STO 18
226 RCL 46
227 X<> 48
228 X<> 62
229 X<> 55
230 STO 46
231 RCL 47
232 X<> 49
233 X<> 63
234 X<> 54
235 STO 47
236 RTN
237 LBL 15
238 >"U," ;Rotate Up Face Counterclockwise 1/4 Turn
239 XEQ 07
240 GTO 08
241 LBL 25
242 >"U:" ;Rotate Up Face Through a Half Turn
243 LBL 08
244 XEQ 07
245 GTO 07
246 LBL 05
247 >"U" ;Rotate Up Face Clockwise 1/4 Turn

```

```

248 LBL 07
249 RCL 28
250 X<> 31
251 X<> 34
252 X<> 37
253 STO 28
254 RCL 29
255 X<> 32
256 X<> 35
257 X<> 38
258 STO 29
259 RCL 30
260 X<> 33
261 X<> 36
262 X<> 39
263 STO 30
264 RCL 56
265 X<> 58
266 X<> 60
267 X<> 62
268 STO 56
269 RCL 57
270 X<> 59
271 X<> 61
272 X<> 63
273 STO 57
274 END

```

HP-41C Rubik's Magic Cube Subr. by Julian Perry  
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```

0222C000F20058113132331C133485C000F200591231325433
3485C000F2005A13311C1132333485C000F200543A11104B90
F3920A11920E2F67E00009AE8A970F85A8159F067E0A11123F
87850BF37F442CE00007B900CF14F37F443A09E00007B80001
F27F44089010CE19CE16CE1391109011CE1ACE17CE14911190
12CE1BCE18CE1591129028CE2ECE2CCE2A91289029CE2FCE2D
CE2B9129850CF37F462CE00007B900CF15F37F463A09E00007
B80002F27F46089010CE14CE1FCE1E91109011CE15CE21CE1D
91119012CE13CE20CE1C91129028CE32CE38CE3191289029CE
33CE39CE309129850DF37F4C2CE00007B900CF16F37F4C3A09
E00007B80003F27F4C089013CE17CE22CE2191139014CE18CE
24CE2091149015CE16CE23CE1F9115902ACE34CE3ACE33912A
902BCE35CE3BCE32912B850EF37F422CE00007B900CF17F37F
423A09E00007B80004F27F42089016CE1ACE25CE2491169017
CE1BCE27CE2391179018CE19CE26CE229118902CCE36CE3CCE
35912C902DCE37CE3DCE34912D850FF37F522CE00007B900CF
18F37F523A09E00007B80005F27F52089010CE1DCE25CE1B91
109011CE1CCE27CE1991119012CE1ECE26CE1A9112902ECE30
CE3ECE37912E902FCE31CE3FCE36912F85CF0FF37F552CE000
07B900CF19F37F553A09E00007B80006F27F5508901CCE1FCE
22CE25911C901DCE20CE23CE26911D901ECE21CE24CE27911E
9038CE3ACE3CCE3E91389039CE3BCE3DCE3F9139C0000D85

```

HP-41C Rubik's Magic Cube Solve by Julian Perry  
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```

01 LBL "S1"      ;1st part of Rubik's Cube Solution
02 SREG 00       ;SigmaReg
03 CLS          ;CLSigma
04 12
05 XEQ 00
06 XEQ "X"
07 13
08 XEQ 00
09 XEQ "Y"
10 14
11 XEQ 00
12 XEQ "Z"
13 15

```

```
14 XEQ 00
15 GTO 13
16 LBL 00
17 CF 00
18 STO 06
19 40.063
20 STO 07
21 LBL 14
22 RCL IND 07
23 ISG 07
24 RCL IND 07
25 X>Y?
26 X<>Y
27 10
28 *
29 +
30 RCL 06
31 X=Y?
32 GTO 00
33 ISG 07
34 GTO 14
35 LBL 00
36 RCL IND 07
37 1
38 X=Y?
39 SF 00
40 RCL 07
41 INT
42 39
43 -
44 2
45 /
46 RCL X
47 4
48 MOD
49 X=0?
50 X<> L
51 5
52 X<>Y
53 -
54 X<>Y
55 RCL IND Y
56 -
57 GTO IND X
58 LBL 01
59 FC? 00
60 RTN
61 1
62 XEQ "T"
63 10
64 XEQ "T"
65 2
66 XEQ "T"
67 0
68 GTO "T"
69 LBL 02
70 FC? 00
71 GTO 02
72 12
73 XEQ "T"
74 11
75 GTO "T"
76 LBL 02
77 22
78 XEQ "T"
79 15
80 XEQ "T"
81 21
82 GTO "T"
83 LBL 03
```

84 FS? 00  
85 GTO 03  
86 23  
87 XEQ "T"  
88 25  
89 XEQ "T"  
90 21  
91 GTO "T"  
92 LBL 03  
93 3  
94 XEQ "T"  
95 0  
96 XEQ "T"  
97 4  
98 XEQ "T"  
99 10  
100 GTO "T"  
101 LBL 04  
102 FC? 00  
103 GTO 04  
104 4  
105 XEQ "T"  
106 1  
107 GTO "T"  
108 LBL 04  
109 24  
110 XEQ "T"  
111 5  
112 XEQ "T"  
113 21  
114 GTO "T"  
115 LBL 05  
116 FC? 00  
117 GTO 05  
118 1  
119 GTO "T"  
120 LBL 05  
121 0  
122 XEQ "T"  
123 14  
124 XEQ "T"  
125 10  
126 GTO "T"  
127 LBL 06  
128 FS? 00  
129 GTO 06  
130 11  
131 GTO "T"  
132 LBL 06  
133 10  
134 XEQ "T"  
135 2  
136 XEQ "T"  
137 0  
138 GTO "T"  
139 LBL 07  
140 FS? 00  
141 GTO 07  
142 10  
143 XEQ "T"  
144 12  
145 XEQ "T"  
146 0  
147 GTO "T"  
148 LBL 07  
149 20  
150 XEQ "T"  
151 3  
152 XEQ "T"  
153 20



154 GTO "T"  
155 LBL 08  
156 FC? 00  
157 GTO 08  
158 0  
159 XEQ "T"  
160 4  
161 XEQ "T"  
162 10  
163 GTO "T"  
164 LBL 08  
165 24  
166 XEQ "T"  
167 1  
168 XEQ "T"  
169 24  
170 GTO "T"  
171 LBL 09  
172 FC? 00  
173 GTO 09  
174 1  
175 XEQ "T"  
176 0  
177 XEQ "T"  
178 14  
179 XEQ "T"  
180 10  
181 GTO "T"  
182 LBL 09  
183 21  
184 GTO "T"  
185 LBL 10  
186 FS? 00  
187 GTO 10  
188 15  
189 XEQ "T"  
190 21  
191 GTO "T"  
192 LBL 10  
193 2  
194 XEQ "T"  
195 11  
196 XEQ "T"  
197 12  
198 GTO "T"  
199 LBL 11  
200 FS? 00  
201 GTO 11  
202 25  
203 XEQ "T"  
204 21  
205 GTO "T"  
206 LBL 11  
207 5  
208 XEQ "T"  
209 14  
210 XEQ "T"  
211 1  
212 XEQ "T"  
213 4  
214 GTO "T"  
215 LBL 12  
216 FS? 00  
217 GTO 12  
218 5  
219 XEQ "T"  
220 21  
221 GTO "T"  
222 LBL 12  
223 14

```

224 XEQ "T"
225 1
226 XEQ "T"
227 4
228 GTO "T"
229 LBL 13
230 CLS ;CLSigma
231 16
232 ENTER
233 125
234 XEQ 00
235 XEQ "X"
236 19
237 ENTER
238 123
239 XEQ 00
240 XEQ "Y"
241 22
242 ENTER
243 134
244 XEQ 00
245 XEQ "Z"
246 25
247 ENTER
248 145
249 XEQ 00
250 GTO 13
251 LBL 00
252 STO 06
253 X<>Y
254 STO 09
255 16.039
256 STO 07
257 LBL 15
258 RCL IND 07
259 ISG 07
260 RCL IND 07
261 X>Y?
262 X<>Y
263 ISG 07
264 RCL IND 07
265 X>Y?
266 X<>Y
267 2
268 10^X
269 *
270 X<> Z
271 X>Y?
272 X<>Y
273 10
274 *
275 +
276 +
277 RCL 06
278 X=Y?
279 GTO 00
280 ISG 07
281 GTO 15
282 RTN
283 LBL 00
284 RCL 09
285 2
286 +
287 RCL 07
288 INT
289 X=Y?
290 GTO 01
291 15
292 -
293 3

```

294 /  
295 RCL X  
296 4  
297 MOD  
298 X=0?  
299 X<> L  
300 5  
301 X<>Y  
302 -  
303 X<>Y  
304 RCL IND Y  
305 -  
306 XEQ IND X  
307 LBL 01  
308 RCL IND 09  
309 1  
310 X=Y?  
311 RTN  
312 ST+ 09  
313 RCL IND 09  
314 X=Y?  
315 GTO 01  
316 11  
317 XEQ "T"  
318 5  
319 XEQ "T"  
320 1  
321 XEQ "T"  
322 4  
323 XEQ "T"  
324 5  
325 XEQ "T"  
326 14  
327 GTO "T"  
328 LBL 01  
329 4  
330 XEQ "T"  
331 15  
332 XEQ "T"  
333 14  
334 XEQ "T"  
335 GTO 05  
336 LBL 02  
337 4  
338 XEQ "T"  
339 12  
340 XEQ "T"  
341 15  
342 XEQ "T"  
343 14  
344 XEQ "T"  
345 2  
346 GTO "T"  
347 LBL 03  
348 4  
349 XEQ "T"  
350 2  
351 XEQ "T"  
352 25  
353 XEQ "T"  
354 14  
355 XEQ "T"  
356 12  
357 GTO "T"  
358 LBL 04  
359 11  
360 XEQ "T"  
361 3  
362 XEQ "T"  
363 5

```
364 XEQ "T"
365 1
366 XEQ "T"
367 13
368 GTO "T"
369 LBL 05
370 11
371 XEQ "T"
372 15
373 XEQ "T"
374 1
375 GTO "T"
376 LBL 06
377 4
378 XEQ "T"
379 15
380 XEQ "T"
381 14
382 GTO "T"
383 LBL 07
384 11
385 XEQ "T"
386 25
387 XEQ "T"
388 1
389 GTO "T"
390 LBL 08
391 11
392 XEQ "T"
393 5
394 XEQ "T"
395 1
396 GTO "T"
397 LBL 13
398 CLS          ;CLSigma
399 2
400 ENTER
401 49
402 ENTER
403 25
404 XEQ 00
405 XEQ "X"
406 3
407 ENTER
408 51
409 ENTER
410 23
411 XEQ 00
412 XEQ "Y"
413 4
414 ENTER
415 53
416 ENTER
417 34
418 XEQ 00
419 XEQ "Z"
420 5
421 ENTER
422 55
423 ENTER
424 45
425 XEQ 00
426 SF 21
427 TONE 6
428 RCL 15
429 12
430 X#Y?
431 AVIEW
432 0
433 STO 15
```

434 "LOAD STAGE 2"  
435 BEEP  
436 PROMPT  
437 STOP  
438 LBL 00  
439 CF 00  
440 STO 06  
441 RDN  
442 STO 09  
443 RDN  
444 STO 08  
445 48.063  
446 STO 07  
447 LBL 17  
448 RCL IND 07  
449 ISG 07  
450 RCL IND 07  
451 X>Y?  
452 X<>Y  
453 10  
454 \*  
455 +  
456 RCL 06  
457 X=Y?  
458 GTO 00  
459 ISG 07  
460 GTO 17  
461 RTN  
462 LBL 00  
463 RCL IND 07  
464 RCL 08  
465 X=Y?  
466 SF 00  
467 RCL 07  
468 INT  
469 47  
470 -  
471 2  
472 /  
473 RCL X  
474 4  
475 MOD  
476 X=0?  
477 X<> L  
478 5  
479 X<>Y  
480 -  
481 X<>Y  
482 RCL IND Y  
483 -  
484 GTO IND X  
485 LBL 01  
486 FC? 00  
487 RTN  
488 XEQ 10  
489 15  
490 XEQ "T"  
491 GTO 10  
492 LBL 02  
493 FC? 00  
494 GTO 02  
495 21  
496 XEQ "T"  
497 25  
498 XEQ "T"  
499 21  
500 XEQ "T"  
501 25  
502 XEQ "T"  
503 21

504 GTO "T"  
505 LBL 02  
506 12  
507 XEQ "T"  
508 XEQ 10  
509 2  
510 GTO "T"  
511 LBL 03  
512 FS? 00  
513 GTO 03  
514 2  
515 XEQ "T"  
516 5  
517 XEQ "T"  
518 XEQ 11  
519 15  
520 XEQ "T"  
521 12  
522 GTO "T"  
523 LBL 03  
524 4  
525 XEQ "T"  
526 2  
527 XEQ "T"  
528 15  
529 XEQ "T"  
530 14  
531 XEQ "T"  
532 12  
533 XEQ "T"  
534 15  
535 XEQ "T"  
536 11  
537 XEQ "T"  
538 5  
539 XEQ "T"  
540 1  
541 XEQ "T"  
542 13  
543 XEQ "T"  
544 5  
545 XEQ "T"  
546 3  
547 GTO "T"  
548 LBL 04  
549 FS? 00  
550 GTO 04  
551 3  
552 XEQ "T"  
553 XEQ 11  
554 13  
555 GTO "T"  
556 LBL 04  
557 24  
558 XEQ "T"  
559 25  
560 XEQ "T"  
561 24  
562 XEQ "T"  
563 25  
564 XEQ "T"  
565 24  
566 GTO "T"  
567 LBL 05  
568 FS? 00  
569 GTO 05  
570 25  
571 XEQ "T"  
572 GTO 11  
573 LBL 05

```

574 5
575 XEQ "T"
576 GTO 10
577 LBL 06
578 FS? 00
579 GTO 10
580 5
581 XEQ "T"
582 GTO 11
583 LBL 07
584 FC? 00
585 GTO 11
586 15
587 XEQ "T"
588 GTO 10
589 LBL 08
590 FS? 00
591 GTO 08
592 15
593 XEQ "T"
594 GTO 11
595 LBL 08
596 25
597 XEQ "T"
598 LBL 10
599 4
600 XEQ "T"
601 5
602 XEQ "T"
603 14
604 XEQ "T"
605 15
606 XEQ "T"
607 11
608 XEQ "T"
609 15
610 XEQ "T"
611 1
612 GTO "T"
613 LBL 11
614 11
615 XEQ "T"
616 15
617 XEQ "T"
618 1
619 XEQ "T"
620 5
621 XEQ "T"
622 4
623 XEQ "T"
624 5
625 XEQ "T"
626 14
627 GTO "T"
628 END

```

HP-41C Rubik's Magic Cube Solve by Julian Perry  
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```

04C9C000F30053319900701112E000001EF1581113E000001E
F1591114E000001EF15A1115E00000BE0001A9003614101A10
1613370F9087960790874571111042402678B1009607BF0001
90871178A800276813194112439073144B67CE741571417190
F241AE7302AD0085111EF15411101EF154121EF154101DF154
03AD00B30011121EF15411111DF1540312121EF15411151EF1
5412111DF15404AC00B40012131EF15412151EF15412111DF1
5404131EF154101EF154141EF15411101DF15405AD00B50014
1EF154111DF1540512141EF154151EF15412111DF15406AD00
B600111DF15406101EF15411141EF15411101DF15407AC00B7
0011111DF1540711101EF154121EF154101DF15408AC00B800

```

```

11101EF15411121EF154101DF1540812101EF154131EF15412
101DF15409AD00B900101EF154141EF15411101DF154091214
1EF154111EF15412141DF1540AAD00BA00111EF154101EF154
11141EF15411101DF1540A12111DF1540BAC00BB0011151EF1
5412111DF1540B121EF15411111EF15411121DF1540CAC00BC
0012151EF15412111DF1540C151EF15411141EF154111EF154
141DF1540DAC00BD00151EF15412111DF1540D11141EF15411
1EF154141DF1540E70111683111215E000001EF15811198311
1213E000001EF159121283111314E000001EF15A1215831114
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4571960790874571125742CE71457111104240402678B10096
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F154BC0008AD00BC0011151EF154BB0009AC00B90011151EF1
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000D9A

```

1225 BYTES

HP-41C Rubik's Magic Cube Solve by Julian Perry  
PPC Calculator Journal V9 N1 Pg 30 Jan-Feb 1982

```

01 LBL "S2"      ;2nd part of Rubik's Cube Solution
02 SREG 00       ;SigmaReg
03 CLS          ;CLSigma
04 256
05 XEQ 00
06 RCL 07
07 INT
08 30
09 X=Y?
10 GTO 10
11 3
12 +
13 X#Y?
14 GTO 09
15 15
16 XEQ "T"
17 GTO 10
18 LBL 09
19 3
20 +
21 X#Y?
22 GTO 09
23 25
24 XEQ "T"
25 GTO 10

```



26 LBL 09  
27 5  
28 XEQ "T"  
29 LBL 10  
30 CF 01  
31 CF 02  
32 CF 03  
33 236  
34 XEQ 00  
35 RCL 07  
36 INT  
37 STO 11  
38 33  
39 X=Y?  
40 SF 01  
41 346  
42 XEQ 00  
43 RCL 07  
44 INT  
45 36  
46 X=Y?  
47 SF 02  
48 456  
49 XEQ 00  
50 RCL 07  
51 INT  
52 39  
53 X=Y?  
54 SF 03  
55 FC? 01  
56 GTO 10  
57 FS? 02  
58 GTO 13  
59 12  
60 XEQ "T"  
61 3  
62 XEQ "T"  
63 2  
64 XEQ "T"  
65 13  
66 XEQ "T"  
67 15  
68 XEQ "T"  
69 13  
70 XEQ "T"  
71 5  
72 XEQ "T"  
73 3  
74 XEQ "T"  
75 5  
76 XEQ "T"  
77 GTO 13  
78 LBL 10  
79 FC? 02  
80 GTO 10  
81 5  
82 XEQ "T"  
83 3  
84 XEQ "T"  
85 2  
86 XEQ "T"  
87 5  
88 XEQ "T"  
89 12  
90 XEQ "T"  
91 15  
92 XEQ "T"  
93 13  
94 XEQ "T"  
95 GTO 13

96 LBL 10  
97 FC? 03  
98 GTO 10  
99 3  
100 XEQ "T"  
101 12  
102 XEQ "T"  
103 13  
104 XEQ "T"  
105 2  
106 XEQ "T"  
107 5  
108 XEQ "T"  
109 2  
110 XEQ "T"  
111 15  
112 XEQ "T"  
113 12  
114 XEQ "T"  
115 15  
116 XEQ "T"  
117 GTO 13  
118 LBL 10  
119 RCL 11  
120 39  
121 X=Y?  
122 GTO 10  
123 5  
124 XEQ "T"  
125 4  
126 XEQ "T"  
127 15  
128 XEQ "T"  
129 12  
130 XEQ "T"  
131 5  
132 XEQ "T"  
133 14  
134 XEQ "T"  
135 15  
136 XEQ "T"  
137 2  
138 XEQ "T"  
139 GTO 13  
140 LBL 10  
141 12  
142 XEQ "T"  
143 5  
144 XEQ "T"  
145 4  
146 XEQ "T"  
147 15  
148 XEQ "T"  
149 2  
150 XEQ "T"  
151 5  
152 XEQ "T"  
153 14  
154 XEQ "T"  
155 15  
156 XEQ "T"  
157 GTO 13  
158 LBL 00  
159 STO 06  
160 28.039  
161 STO 07  
162 LBL 02  
163 RCL IND 07  
164 ISG 07  
165 RCL IND 07

```
166 X>Y?
167 X<>Y
168 ISG 07
169 RCL IND 07
170 X>Y?
171 X<>Y
172 2
173 10^X
174 *
175 X<> Z
176 X>Y?
177 X<>Y
178 10
179 *
180 +
181 +
182 RCL 06
183 X=Y?
184 RTN
185 ISG 07
186 GTO 02
187 LBL 13
188 CLS ;CLSigma
189 CF 01
190 CF 02
191 CF 03
192 CF 04
193 RCL 28
194 6
195 X#Y?
196 SF 01
197 RCL 31
198 X#Y?
199 SF 02
200 RCL 34
201 6
202 X#Y?
203 SF 03
204 RCL 37
205 6
206 X#Y?
207 SF 04
208 FS? 01
209 XEQ 12
210 FC? 02
211 GTO 10
212 15
213 XEQ "T"
214 XEQ 12
215 LBL 10
216 FC? 03
217 GTO 10
218 25
219 FS? 02
220 15
221 XEQ "T"
222 XEQ 12
223 LBL 10
224 FC? 04
225 GTO 10
226 5
227 FS? 02
228 25
229 FS? 03
230 15
231 XEQ "T"
232 XEQ 12
233 LBL 10
234 0
235 FS? 02
```

236 5  
237 FS? 03  
238 25  
239 FS? 04  
240 15  
241 X#0?  
242 XEQ "T"  
243 GTO 13  
244 LBL 12  
245 RCL 29  
246 6  
247 X=Y?  
248 GTO 05  
249 0  
250 XEQ "T"  
251 1  
252 XEQ "T"  
253 10  
254 XEQ "T"  
255 11  
256 XEQ "T"  
257 0  
258 XEQ "T"  
259 1  
260 XEQ "T"  
261 10  
262 XEQ "T"  
263 11  
264 GTO "T"  
265 LBL 05  
266 1  
267 XEQ "T"  
268 0  
269 XEQ "T"  
270 11  
271 XEQ "T"  
272 10  
273 XEQ "T"  
274 1  
275 XEQ "T"  
276 0  
277 XEQ "T"  
278 11  
279 XEQ "T"  
280 10  
281 GTO "T"  
282 LBL 13  
283 CF 01  
284 CF 02  
285 CF 03  
286 CF 04  
287 RCL 56  
288 6  
289 X#Y?  
290 SF 01  
291 RCL 58  
292 X#Y?  
293 SF 02  
294 RCL 60  
295 6  
296 X#Y?  
297 SF 03  
298 RCL 62  
299 X#Y?  
300 SF 04  
301 0  
302 +  
303 1  
304 FS?C 01  
305 ST+ L

```
306 2
307 FS?C 02
308 ST+ L
309 4
310 FS?C 03
311 ST+ L
312 8
313 FS?C 04
314 ST+ L
315 LASTX
316 X#0?
317 XEQ IND L
318 GTO 13
319 LBL 03
320 CLS ;CLSigma
321 GTO 00
322 LBL 05
323 CLS ;CLSigma
324 GTO 01
325 LBL 06
326 XEQ "X"
327 GTO 00
328 LBL 09
329 XEQ "Z"
330 GTO 00
331 LBL 10
332 XEQ "Z"
333 GTO 01
334 LBL 12
335 XEQ "Y"
336 GTO 00
337 LBL 00
338 11
339 XEQ "T"
340 25
341 XEQ "T"
342 1
343 XEQ "T"
344 4
345 XEQ "T"
346 3
347 XEQ "T"
348 2
349 XEQ "T"
350 25
351 XEQ "T"
352 12
353 XEQ "T"
354 13
355 XEQ "T"
356 14
357 GTO "T"
358 LBL 01
359 12
360 XEQ "T"
361 13
362 XEQ "T"
363 14
364 XEQ "T"
365 5
366 XEQ "T"
367 4
368 XEQ "T"
369 3
370 XEQ "T"
371 2
372 XEQ "T"
373 1
374 XEQ "T"
375 15
```

376 XEQ "T"  
377 11  
378 GTO "T"  
379 LBL 15  
380 24  
381 XEQ "T"  
382 23  
383 XEQ "T"  
384 24  
385 XEQ "T"  
386 25  
387 XEQ "T"  
388 4  
389 XEQ "T"  
390 12  
391 XEQ "T"  
392 3  
393 XEQ "T"  
394 2  
395 XEQ "T"  
396 14  
397 XEQ "T"  
398 25  
399 XEQ "T"  
400 24  
401 XEQ "T"  
402 23  
403 XEQ "T"  
404 24  
405 XEQ "T"  
406 5  
407 GTO "T"  
408 LBL 13  
409 CF 00  
410 CF 01  
411 CF 02  
412 CF 03  
413 CF 04  
414 2  
415 RCL 57  
416 X#Y?  
417 SF 01  
418 STO 06  
419 3  
420 RCL 59  
421 X#Y?  
422 SF 02  
423 STO 07  
424 4  
425 RCL 61  
426 X#Y?  
427 SF 03  
428 STO 08  
429 5  
430 RCL 63  
431 X#Y?  
432 SF 04  
433 STO 09  
434 0  
435 +  
436 1  
437 FS?C 01  
438 ST+ L  
439 2  
440 FS?C 02  
441 ST+ L  
442 4  
443 FS?C 03  
444 ST+ L  
445 8

```

446 FS?C 04
447 ST+ L
448 LASTX
449 X#0?
450 XEQ IND L
451 TONE 6
452 RCL 15
453 12
454 X#Y?
455 AVIEW
456 " " ;1 space
457 FIX 0
458 CF 29
459 ARCL 14
460 >" MOVES"
461 BEEP
462 AVIEW
463 STOP
464 LBL 07
465 XEQ "Y"
466 2
467 RCL 07
468 X=Y?
469 SF 00
470 GTO 21
471 LBL 11
472 XEQ "X"
473 2
474 RCL 07
475 X=Y?
476 SF 00
477 GTO 21
478 LBL 13
479 CLS ;CLSigma
480 2
481 RCL 08
482 X=Y?
483 SF 00
484 GTO 21
485 LBL 14
486 XEQ "Z"
487 5
488 RCL 07
489 X=Y?
490 SF 00
491 LBL 21
492 24
493 XEQ "T"
494 5
495 FS? 00
496 15
497 XEQ "T"
498 1
499 XEQ "T"
500 13
501 XEQ "T"
502 24
503 XEQ "T"
504 3
505 XEQ "T"
506 11
507 XEQ "T"
508 5
509 FS?C 00
510 15
511 XEQ "T"
512 24
513 GTO "T"
514 LBL 15
515 CLS ;CLSigma

```

```
516 RCL 08
517 2
518 X=Y?
519 GTO 22
520 RCL 07
521 X=Y?
522 XEQ "X"
523 22
524 XEQ "T"
525 24
526 XEQ "T"
527 15
528 XEQ "T"
529 21
530 XEQ "T"
531 23
532 XEQ "T"
533 24
534 XEQ "T"
535 21
536 XEQ "T"
537 23
538 XEQ "T"
539 22
540 XEQ "T"
541 5
542 XEQ "T"
543 22
544 XEQ "T"
545 24
546 GTO "T"
547 LBL 22
548 22
549 XEQ "T"
550 24
551 XEQ "T"
552 0
553 XEQ "T"
554 22
555 XEQ "T"
556 24
557 XEQ "T"
558 25
559 XEQ "T"
560 22
561 XEQ "T"
562 24
563 XEQ "T"
564 0
565 XEQ "T"
566 22
567 XEQ "T"
568 24
569 GTO "T"
570 END
```



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131416E000002768131678A802141516E000002768131978A8  
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F15411151EF15411131EF154151EF154131EF154151EF154BE  
000BAD02BB00151EF154131EF154121EF154151EF15411121E  
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54121EF154BE000B11121EF154151EF154141EF15411151EF1  
54121EF154151EF15411141EF15411151EF154BE0001361218  
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F15411101EF154111EF154101EF15411111EF15411101DF154  
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F154111EF154141EF154131EF154121EF15412151EF1541112  
1EF15411131EF15411141DF1540211121EF15411131EF15411  
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151EF15411111DF154CF0F12141EF15412131EF15412141EF1  
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F1540EA900A901A902A903A90412903979A8013613903B79A8  
023714903D79A8033815903F79A80439104011AA01927412AA  
02927414AA03927418AA0492747663AEF49F062F1112797EF1  
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1116 BYTES

# HP-41C Rubik's Cube Store SC by Julian Perry PPC V9 N1 P30 Jan-Feb 1982

Program Registers Needed: 30

Row 1 (1 - 5)



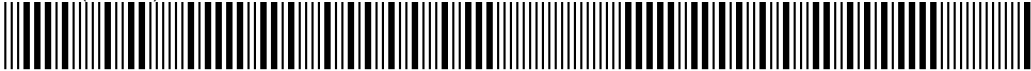
Row 2 (6 - 10)



Row 3 (10 - 13)



Row 4 (14 - 17)



Row 5 (17 - 21)



Row 6 (21 - 25)



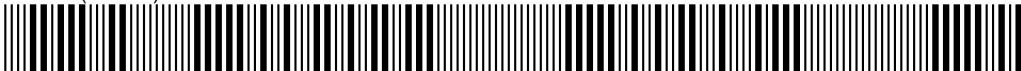
Row 7 (25 - 29)



Row 8 (29 - 33)



Row 9 (34 - 38)



Row 10 (38 - 42)



Row 11 (42 - 46)



Row 12 (47 - 50)



Row 13 (50 - 55)



Row 14 (56 - 65)



Row 15 (65 - 74)



Row 16 (75 - 81)



# HP-41C Rubik's Cube Subr. X by Julian Perry PPC V9 N1 P30 Jan-Feb 1982

Program Registers Needed: 78

Row 1 (1 - 8)



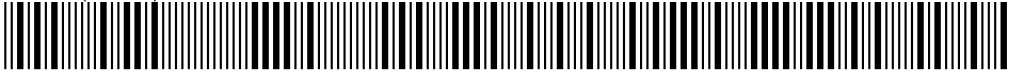
Row 2 (9 - 17)



Row 3 (17 - 25)



Row 4 (25 - 31)



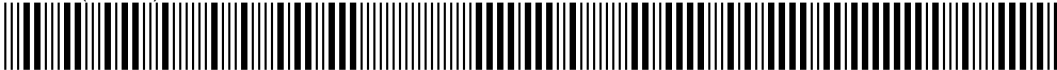
Row 5 (32 - 39)



Row 6 (39 - 48)



Row 7 (48 - 52)



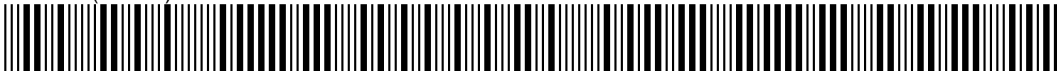
Row 8 (53 - 59)



Row 9 (60 - 66)



Row 10 (66 - 72)



Row 11 (73 - 79)



Row 12 (79 - 86)



Row 13 (86 - 90)



Row 14 (91 - 97)



Row 15 (98 - 104)



Row 16 (104 - 110)



# HP-41C Rubik's Cube Subr. X by Julian Perry PPC V9 N1 P30 Jan-Feb 1982

Row 17 (111 - 117)



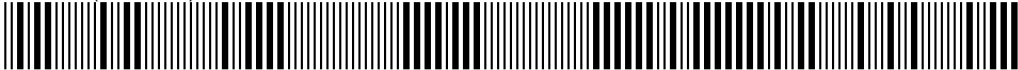
Row 18 (117 - 124)



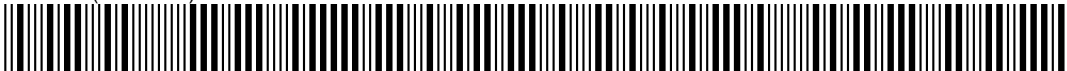
Row 19 (124 - 128)



Row 20 (129 - 135)



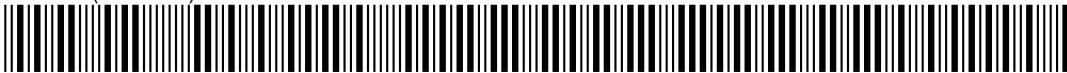
Row 21 (136 - 142)



Row 22 (142 - 148)



Row 23 (149 - 155)



Row 24 (155 - 162)



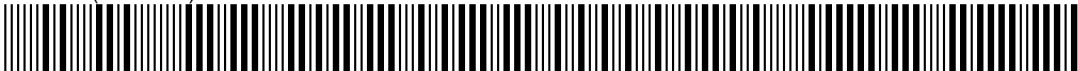
Row 25 (162 - 166)



Row 26 (167 - 173)



Row 27 (174 - 180)



Row 28 (180 - 186)



Row 29 (187 - 193)



Row 30 (193 - 200)



Row 31 (200 - 204)



Row 32 (205 - 211)



Row 33 (212 - 218)



# HP-41C Rubik's Cube Subr. X by Julian Perry PPC V9 N1 P30 Jan-Feb 1982

Row 34 (218 - 224)



Row 35 (225 - 231)



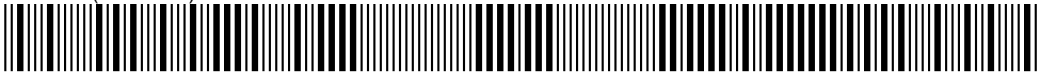
Row 36 (231 - 238)



Row 37 (238 - 242)



Row 38 (242 - 249)



Row 39 (249 - 255)



Row 40 (256 - 262)



Row 41 (262 - 268)



Row 42 (269 - 274)



# HP-41C Rubik's Cube Solve S1 by Julian Perry PPC V9 N1 P30 Jan-Feb 1982

Program Registers Needed: 175

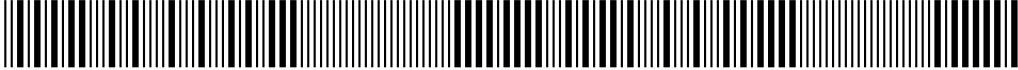
Row 1 (1 - 5)



Row 2 (5 - 10)



Row 3 (10 - 15)



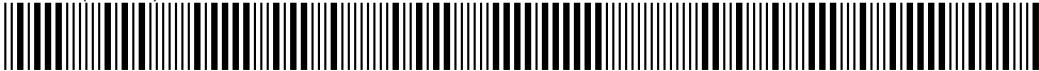
Row 4 (15 - 21)



Row 5 (22 - 30)



Row 6 (31 - 39)



Row 7 (39 - 49)



Row 8 (50 - 59)



Row 9 (59 - 66)



Row 10 (66 - 72)



Row 11 (73 - 78)



Row 12 (78 - 84)



Row 13 (84 - 89)



Row 14 (90 - 96)



Row 15 (96 - 102)



Row 16 (103 - 109)



# HP-41C Rubik's Cube Solve S1 by Julian Perry PPC V9 N1 P30 Jan-Feb 1982

Row 17 (110 - 115)



Row 18 (116 - 122)



Row 19 (123 - 128)



Row 20 (129 - 134)



Row 21 (135 - 141)



Row 22 (142 - 147)



Row 23 (147 - 153)



Row 24 (154 - 160)



Row 25 (161 - 166)



Row 26 (166 - 172)



Row 27 (173 - 179)



Row 28 (179 - 184)



Row 29 (185 - 191)



Row 30 (191 - 197)



Row 31 (197 - 203)



Row 32 (203 - 209)

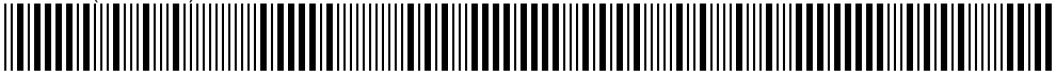


Row 33 (210 - 216)



# HP-41C Rubik's Cube Solve S1 by Julian Perry PPC V9 N1 P30 Jan-Feb 1982

Row 34 (216 - 222)



Row 35 (223 - 228)



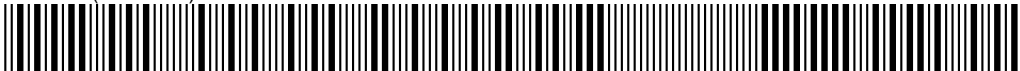
Row 36 (229 - 235)



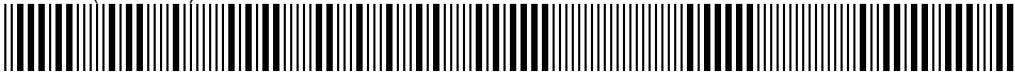
Row 37 (235 - 240)



Row 38 (241 - 246)



Row 39 (246 - 253)



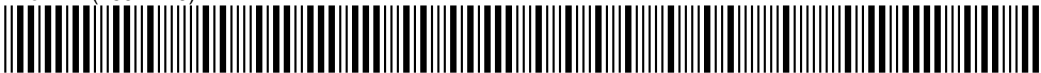
Row 40 (254 - 259)



Row 41 (259 - 268)



Row 42 (269 - 279)



Row 43 (279 - 288)



Row 44 (289 - 298)



Row 45 (299 - 308)



Row 46 (308 - 316)



Row 47 (317 - 323)



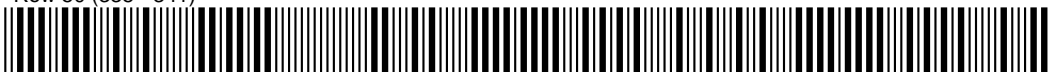
Row 48 (323 - 329)



Row 49 (330 - 334)



Row 50 (335 - 341)





# HP-41C Rubik's Cube Solve S1 by Julian Perry PPC V9 N1 P30 Jan-Feb 1982

Row 51 (341 - 346)



Row 52 (347 - 353)



Row 53 (353 - 359)



Row 54 (359 - 365)



Row 55 (366 - 371)



Row 56 (371 - 378)



Row 57 (378 - 383)



Row 58 (384 - 389)



Row 59 (389 - 396)



Row 60 (396 - 404)



Row 61 (404 - 411)



Row 62 (411 - 418)



Row 63 (418 - 425)



Row 64 (425 - 434)



Row 65 (434 - 435)



Row 66 (436 - 445)



Row 67 (445 - 451)



# HP-41C Rubik's Cube Solve S1 by Julian Perry PPC V9 N1 P30 Jan-Feb 1982

Row 68 (452 - 460)



Row 69 (460 - 469)



Row 70 (470 - 480)



Row 71 (481 - 488)



Row 72 (489 - 495)



Row 73 (495 - 500)



Row 74 (500 - 506)



Row 75 (506 - 512)



Row 76 (512 - 518)



Row 77 (518 - 524)



Row 78 (525 - 530)



Row 79 (530 - 535)



Row 80 (535 - 541)



Row 81 (541 - 547)



Row 82 (547 - 553)



Row 83 (554 - 559)



Row 84 (560 - 564)



# HP-41C Rubik's Cube Solve S1 by Julian Perry PPC V9 N1 P30 Jan-Feb 1982

Row 85 (565 - 571)



Row 86 (571 - 578)



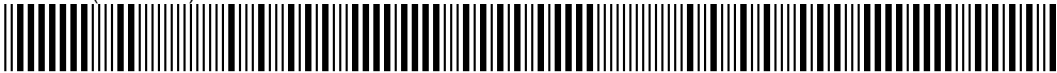
Row 87 (578 - 585)



Row 88 (585 - 591)



Row 89 (592 - 597)



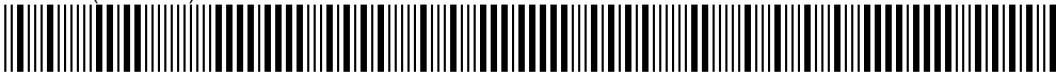
Row 90 (598 - 604)



Row 91 (604 - 609)



Row 92 (610 - 615)



Row 93 (616 - 621)



Row 94 (622 - 627)



Row 95 ( 628 )



# HP-41C Rubik's Cube Solve S2 by Julian Perry PPC V9 N1 P31 Jan-Feb 1982

Program Registers Needed: 160

Row 1 (1 - 5)



Row 2 (5 - 14)



Row 3 (14 - 22)



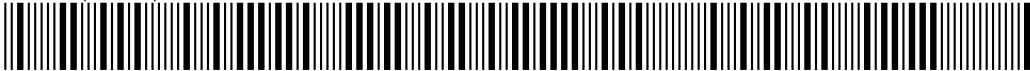
Row 4 (22 - 28)



Row 5 (29 - 34)



Row 6 (35 - 42)



Row 7 (42 - 49)



Row 8 (49 - 57)



Row 9 (57 - 63)



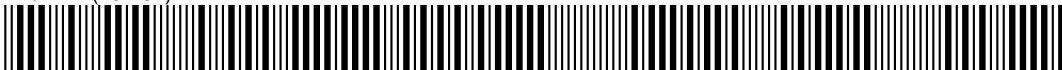
Row 10 (64 - 68)



Row 11 (69 - 74)



Row 12 (75 - 82)



Row 13 (82 - 88)



Row 14 (88 - 93)



Row 15 (94 - 100)



Row 16 (100 - 106)



# HP-41C Rubik's Cube Solve S2 by Julian Perry PPC V9 N1 P31 Jan-Feb 1982

Row 17 (106 - 112)



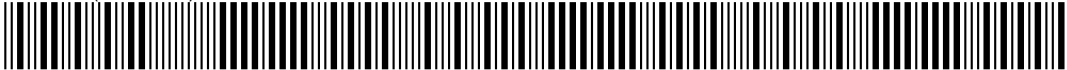
Row 18 (112 - 117)



Row 19 (117 - 125)



Row 20 (126 - 130)



Row 21 (131 - 136)



Row 22 (136 - 142)



Row 23 (143 - 148)



Row 24 (149 - 154)



Row 25 (155 - 160)



Row 26 (160 - 168)



Row 27 (168 - 178)



Row 28 (178 - 188)



Row 29 (189 - 196)



Row 30 (196 - 204)



Row 31 (204 - 211)



Row 32 (211 - 217)

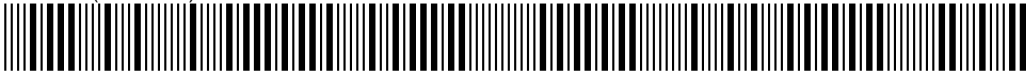


Row 33 (217 - 222)



# HP-41C Rubik's Cube Solve S2 by Julian Perry PPC V9 N1 P31 Jan-Feb 1982

Row 34 (223 - 230)



Row 35 (230 - 237)



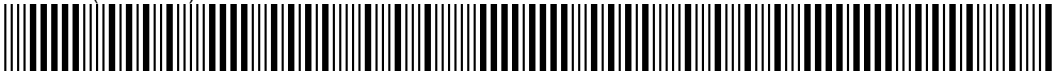
Row 36 (237 - 243)



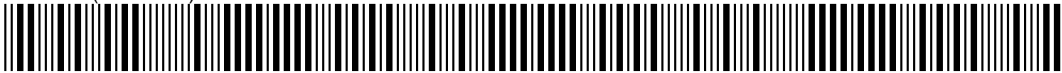
Row 37 (244 - 252)



Row 38 (252 - 257)



Row 39 (258 - 263)



Row 40 (263 - 269)



Row 41 (270 - 275)



Row 42 (275 - 281)



Row 43 (281 - 287)



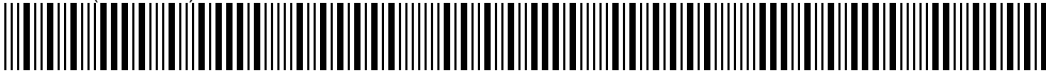
Row 44 (288 - 296)



Row 45 (297 - 305)



Row 46 (305 - 313)



Row 47 (313 - 321)



Row 48 (322 - 329)



Row 49 (329 - 335)

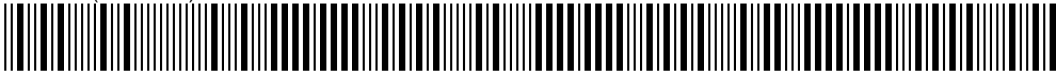


Row 50 (336 - 341)



# HP-41C Rubik's Cube Solve S2 by Julian Perry PPC V9 N1 P31 Jan-Feb 1982

Row 51 (342 - 348)



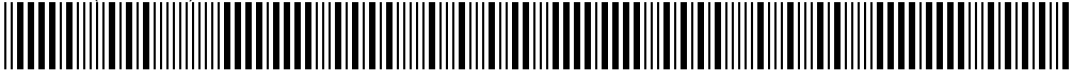
Row 52 (349 - 353)



Row 53 (354 - 359)



Row 54 (360 - 364)



Row 55 (365 - 371)



Row 56 (372 - 377)



Row 57 (377 - 382)



Row 58 (383 - 387)



Row 59 (388 - 393)



Row 60 (394 - 399)



Row 61 (399 - 404)



Row 62 (405 - 411)



Row 63 (411 - 419)



Row 64 (420 - 428)



Row 65 (429 - 438)



Row 66 (438 - 446)



Row 67 (446 - 454)

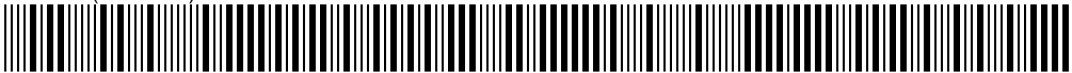


# HP-41C Rubik's Cube Solve S2 by Julian Perry PPC V9 N1 P31 Jan-Feb 1982

Row 68 (455 - 460)



Row 69 (460 - 467)



Row 70 (468 - 475)



Row 71 (476 - 484)



Row 72 (484 - 491)



Row 73 (492 - 497)



Row 74 (498 - 503)



Row 75 (503 - 509)



Row 76 (510 - 515)



Row 77 (516 - 523)



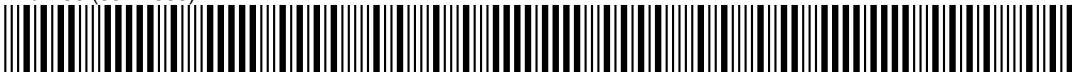
Row 78 (524 - 528)



Row 79 (529 - 534)



Row 80 (534 - 539)



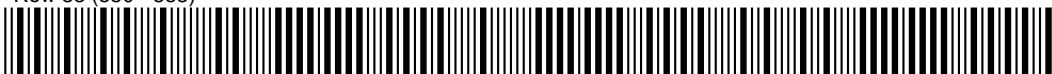
Row 81 (539 - 544)



Row 82 (545 - 550)



Row 83 (550 - 555)



Row 84 (556 - 561)





# HP-41C Rubik's Cube Solve S2 by Julian Perry PPC V9 N1 P31 Jan-Feb 1982

Row 85 (561 - 566)



Row 86 (567 - 570)

