```
 1 'Jonathan Duke
 2 'Project #4
 3 ' {$STAMP BS2}
 4 ' {$PBASIC 2.5}
 5
 6
 7 time VAR Word
 8 timecheck VAR Word
 9 flashrate VAR Word
10 counter VAR Word
11
12 debugvar VAR Word
13
14 LEDpower PIN 11
15 Red PIN 12
16 Green PIN 10
17 Blue PIN 9
18
19 Main:
20 DO
21 HIGH LEDpower
22 HIGH 15
23 PAUSE 10
24 RCTIME 15, 1, time
25 time = time * (1000/59)   'Scale .
26 time = time + 234   'Offset.
27 'DEBUG ? flashrate
28 'DEBUG CR, "time = ", DEC5 time
29
30 '9
31 IF (time<(679/2)) THEN
32 GOSUB Nine
33 HIGH Green:LOW Red:HIGH Blue
34 FOR counter = 0 TO 10
35 PULSOUT 13, 250
36 PAUSE 20
37 NEXT
38 'DO
39 'GOSUB racecartime
40 'DEBUG ? time
41 'LOOP
42 ENDIF
43
44 IF (time>340) AND (time<429) THEN
45 GOSUB Eight
46 FOR counter = 0 TO 10
47 PULSOUT 13, 354
48 PAUSE 20
49 NEXT
50 DO
51 GOSUB racecartime
52 'DEBUG ? time
53 HIGH Green:HIGH Red:LOW Blue
54 PAUSE 75
55 HIGH Green:HIGH Red:HIGH Blue
56 GOSUB racecartime
57 PAUSE 75
58 LOOP UNTIL (time<(679/2)) OR (time>429)
59 ENDIF
60
61 IF (time>429) AND (time<(1037/2)) THEN
62 GOSUB Seven
63 FOR counter = 0 TO 10
64 PULSOUT 13, 458
65 PAUSE 20
```

```
66 NEXT
67 DO
68 GOSUB racecartime
69 HIGH Green:HIGH Red:LOW Blue
70 PAUSE 100
71 HIGH Green:HIGH Red:HIGH Blue
72 GOSUB racecartime
73 PAUSE 100
74 LOOP UNTIL (time<429) OR (time>(1037/2))
75 ENDIF
76
77 IF (time>(1037/2)) AND (time<608) THEN
78 GOSUB Six
79 FOR counter = 0 TO 10
80 PULSOUT 13, 562
81 PAUSE 20
82 NEXT
83 DO
84 GOSUB racecartime
85 HIGH Green:HIGH Red:LOW Blue
86 PAUSE 125
87 HIGH Green:HIGH Red:HIGH Blue
88 GOSUB racecartime
89 PAUSE 125
90 LOOP UNTIL (time<(1037/2)) OR (time>608)
91 ENDIF
92
93 IF (time>608) AND (time<(1395/2)) THEN
94 GOSUB Five
95 FOR counter = 0 TO 10
96 PULSOUT 13, 666
97 PAUSE 20
98 NEXT
99 GOSUB racecartime
100 DO
101 GOSUB racecartime
102 HIGH Green:HIGH Red:LOW Blue
103 PAUSE 150
104 HIGH Green:HIGH Red:HIGH Blue
105 GOSUB racecartime
106 PAUSE 150
107 LOOP UNTIL (time<608) OR (time>(1395/2))
108 ENDIF
109
110 IF (time>(1395/2)) AND (time<787) THEN
111 GOSUB Four
112 FOR counter = 0 TO 10
113 PULSOUT 13, 769
114 PAUSE 20
115 NEXT
116 DO
117 GOSUB racecartime
118 HIGH Green:HIGH Red:LOW Blue
119 PAUSE 175
120 HIGH Green:HIGH Red:HIGH Blue
121 GOSUB racecartime
122 PAUSE 175
123 LOOP UNTIL (time<(1395/2)) OR (time>787)
124 ENDIF
125
126 IF (time>787) AND (time<(1753/2)) THEN
127 GOSUB Three
128 FOR counter = 0 TO 10
129 PULSOUT 13, 873
130 PAUSE 20
```

```
131 NEXT
132 DO
133 GOSUB racecartime
134 HIGH Green:HIGH Red:LOW Blue
135 PAUSE 200
136 HIGH Green:HIGH Red:HIGH Blue
137 GOSUB racecartime
138 PAUSE 200
139 LOOP UNTIL (time<787) OR (time>(1753/2))
140 ENDIF
141
142 IF (time>(1753/2)) AND (time<966) THEN
143 GOSUB Two
144 FOR counter = 0 TO 10
145 PULSOUT 13, 977
146 PAUSE 20
147 NEXT
148
149 DO
150 GOSUB racecartime
151 HIGH Green:HIGH Red:LOW Blue
152 PAUSE 225
153 HIGH Green:HIGH Red:HIGH Blue
154 GOSUB racecartime
155 PAUSE 225
156 LOOP UNTIL (time<(1753/2)) OR (time>966)
157 ENDIF
158
159
160 IF (time>966) AND (time<(2111/2)) THEN
161 GOSUB One
162 FOR counter = 0 TO 10
163 'DEBUG ? counter
164 PULSOUT 13, 1081
165 PAUSE 20
166 NEXT
167 DO
168 GOSUB racecartime
169 HIGH Green:HIGH Red:LOW Blue
170 PAUSE 250
171 HIGH Green:HIGH Red:HIGH Blue
172 GOSUB racecartime
173 PAUSE 250
174 LOOP UNTIL (time<966) OR (time>(2111/2))
175 ENDIF
176
177 IF (time>(2111/2))THEN
178 GOSUB Zero
179 DO
180 GOSUB racecartime
181 'DEBUG ? time
182 LOW Green:HIGH Red:HIGH Blue
183 FOR counter = 0 TO 10
184 PULSOUT 13, 1185
185 PAUSE 20
186 NEXT
187
188 LOOP UNTIL (time<(2111/2))
189 ENDIF
190
191 LOOP
192
193
194 'zoom zoom
195 racecartime:
```

```
196 HIGH 15
197 PAUSE 10
198 RCTIME 15, 1, time
199 time = time * (1000/59)   'Scale .
200 time = time + 234
201 RETURN
202
203
204
205 Zero:
206 HIGH 0:HIGH 1:HIGH 2:LOW 3:LOW 4:HIGH 5:HIGH 6:HIGH 7
207 HIGH Red:LOW Green:HIGH Blue
208
209 RETURN
210
211 One:
212 LOW 0:LOW 1:HIGH 2:LOW 3:LOW 4:LOW 5:LOW 6:HIGH 7
213
214 RETURN
215
216 Two:
217 HIGH 0:HIGH 1:LOW 2:LOW 3:HIGH 4:LOW 5:HIGH 6:HIGH 7
218
219 RETURN
220
221 Three:
222 LOW 0:HIGH 1:HIGH 2:LOW 3:HIGH 4:LOW 5:HIGH 6:HIGH 7
223
224 RETURN
225
226 Four:
227 LOW 0:LOW 1:HIGH 2:LOW 3:HIGH 4:HIGH 5:LOW 6:HIGH 7
228
229 RETURN
230
231 Five:
232 LOW 0:HIGH 1:HIGH 2:LOW 3:HIGH 4:HIGH 5:HIGH 6:LOW 7
233
234 RETURN
235
236 Six:
237 HIGH 0:HIGH 1:HIGH 2:LOW 3:HIGH 4:HIGH 5:HIGH 6:LOW 7
238
239 RETURN
240
241 Seven:
242 LOW 0:LOW 1:HIGH 2:LOW 3:LOW 4:LOW 5:HIGH 6:HIGH 7
243
244 RETURN
245
246 Eight:
247 HIGH 0:HIGH 1:HIGH 2:LOW 3:HIGH 4:HIGH 5:HIGH 6:HIGH 7
248
249 RETURN
250
251 Nine:
252 LOW 0:HIGH 1:HIGH 2:LOW 3:HIGH 4:HIGH 5:HIGH 6:HIGH 7
253 LOW Red:HIGH Green:HIGH Blue
254 RETURN
```