```
1 'Jonathan Duke
2 'Project #6
3 ' {$STAMP BS2}
4 ' {$PBASIC 2.5}
5 counter VAR Word
6 counter1 VAR Word
7 rright VAR Nib
8 lleft VAR Nib
9 Green PIN 15
10 Yellow PIN 14
11 Red PIN 13
12 Right PIN 10
13 Left PIN 9
14
15
16 LOW Red
17 LOW Yellow
18 LOW Green
19
20 Right = 0
21 Left = 0
22 OUTL = %10000000
23 DIRL = %11111111
24
25 DO
26 GOSUB Main
27 LOOP
28
29 Main:
30 DO
31 IF OUTL=%00000000 THEN
32 FOR counter= 0 TO 65535
33 IF IN11=1 THEN
34 PAUSE 250
35 OUTL = %10000000
36 GOSUB Main
37 ENDIF
38 NEXT
39 ENDIF
40 FOR counter = 0 TO 700
41 GOSUB Lzero
42 GOSUB Rzero
43 IF IN12=1 THEN
44 PAUSE 250
45 FOR counter = 0 TO 62
46 GOSUB Lzero
47 GOSUB Rzero
48 NEXT
49 GOSUB Start
50 ENDIF
51 NEXT
52 OUTL = %00000000
53 LOOP
54
55 Start:
56 DO
57 FOR counter = 0 TO 62
58 IF counter = 61 THEN
59 rright=rright+1
60 IF rright = 10 THEN rright=0
61 ENDIF
62 IF IN12=1 THEN
63 PAUSE 200
64 GOSUB paws
65 ENDIF
```

```
 66 GOSUB Leftcycle
 67 GOSUB Rightcycle
 68 NEXT
 69 IF rright = 9 THEN
 70 lleft=lleft+1
 71 IF lleft = 6 THEN
 72 lleft = 0
 73 counter1 = counter1 + 1
 74 IF counter1 = 4 THEN
 75 counter1=0
 76 GOSUB LEDcontrol               '
 77 GOSUB Main                     ' take out if wanting to run continuously, this limits it to 4
    minutes then it resets
 78 ENDIF
 79 GOSUB LEDcontrol
 80 ENDIF
 81 ENDIF
 82 LOOP
 83
 84 LeftCycle:
 85 IF lleft = 0 THEN GOSUB Lzero
 86 IF lleft = 1 THEN GOSUB Lone
 87 IF lleft = 2 THEN GOSUB Ltwo
 88 IF lleft = 3 THEN GOSUB Lthree
 89 IF lleft = 4 THEN GOSUB Lfour
 90 IF lleft = 5 THEN GOSUB Lfive
 91 RETURN
 92
 93
 94 RightCycle:
 95 IF rright = 0 THEN GOSUB Rone
 96 IF rright = 1 THEN GOSUB Rtwo
 97 IF rright = 2 THEN GOSUB Rthree
 98 IF rright = 3 THEN GOSUB Rfour
 99 IF rright = 4 THEN GOSUB Rfive
100 IF rright = 5 THEN GOSUB Rsix
101 IF rright = 6 THEN GOSUB Rseven
102 IF rright = 7 THEN GOSUB Reight
103 IF rright = 8 THEN GOSUB Rnine
104 IF rright = 9 THEN GOSUB Rzero
105 RETURN
106
107 LEDcontrol:
108 IF counter1=0 THEN
109 LOW Red
110 LOW Yellow
111 LOW Green
112 ENDIF
113 IF counter1=1 THEN
114 LOW Red
115 LOW Yellow
116 HIGH Green
117 ENDIF
118 IF counter1=2 THEN
119 LOW Red
120 HIGH Yellow
121 HIGH Green
122 ENDIF
123 IF counter1=3 THEN
124 HIGH Red
125 HIGH Yellow
126 HIGH Green
127 ENDIF
128 RETURN
129
```

```
130 weeset:
131 LOW Red
132 LOW Yellow
133 LOW Green
134 counter1=0
135 DO
136 FOR counter = 0 TO 2000
137 IF OUTL = %00000000 THEN
138 DO
139 FOR counter=0 TO 65535
140 IF IN11=1 THEN
141 PAUSE 200
142 GOSUB Lzero
143 GOSUB Rzero
144 GOSUB weeset
145 ENDIF
146 NEXT
147 LOOP
148 ENDIF
149 GOSUB Lzero
150 GOSUB Rzero
151 IF IN12=1 THEN
152 PAUSE 250
153 rright=0
154 lleft=0
155 FOR counter = 0 TO 62
156 GOSUB Lzero
157 GOSUB Rzero
158 NEXT
159 GOSUB Start
160 ENDIF
161 NEXT
162 OUTL = %00000000
163 LOOP
164
165 paws:
166 DO
167 FOR counter = 0 TO 700
168 IF OUTL = %00000000 THEN
169 GOSUB weeset
170 ENDIF
171 IF IN12=1 THEN
172 PAUSE 250
173 RETURN
174 ENDIF
175 IF rright = 0 THEN GOSUB Rone
176 IF rright = 1 THEN GOSUB Rtwo
177 IF rright = 2 THEN GOSUB Rthree
178 IF rright = 3 THEN GOSUB Rfour
179 IF rright = 4 THEN GOSUB Rfive
180 IF rright = 5 THEN GOSUB Rsix
181 IF rright = 6 THEN GOSUB Rseven
182 IF rright = 7 THEN GOSUB Reight
183 IF rright = 8 THEN GOSUB Rnine
184 IF rright = 9 THEN GOSUB Rzero
185 IF lleft = 0 THEN GOSUB Lzero
186 IF lleft = 1 THEN GOSUB Lone
187 IF lleft = 2 THEN GOSUB Ltwo
188 IF lleft = 3 THEN GOSUB Lthree
189 IF lleft = 4 THEN GOSUB Lfour
190 IF lleft = 5 THEN GOSUB Lfive
191 IF IN11=1 THEN GOSUB weeset
192 NEXT
193 OUTL= %00000000
194 LOW Red
```

```
195 LOW Yellow
196 LOW Green
197 LOOP
198
199 Lzero:
200 OUTL = %11111100
201 LOW Left
202 HIGH Left
203 RETURN
204
205 Lone:
206 OUTL = %01100000
207 LOW Left
208 HIGH Left
209 RETURN
210
211 Ltwo:
212 OUTL = %11011010
213 LOW Left
214 HIGH Left
215 RETURN
216
217 Lthree:
218 OUTL = %11110010
219 LOW Left
220 HIGH Left
221 RETURN
222
223 Lfour:
224 OUTL = %01100110
225 LOW Left
226 HIGH Left
227 RETURN
228
229 Lfive:
230 OUTL = %10110110
231 LOW Left
232 HIGH Left
233 RETURN
234
235 Rzero:
236 OUTL = %11111100
237 LOW Right
238 HIGH Right
239 RETURN
240
241 Rone:
242 OUTL = %01100000
243 LOW Right
244 HIGH Right
245 RETURN
246
247 Rtwo:
248 OUTL = %11011010
249 LOW Right
250 HIGH Right
251 RETURN
252
253 Rthree:
254 OUTL = %11110010
255 LOW Right
256 HIGH Right
257 RETURN
258
259 Rfour:
```

```
260 OUTL = %01100110
261 LOW Right
262 HIGH Right
263 RETURN
264
265 Rfive:
266 OUTL = %10110110
267 LOW Right
268 HIGH Right
269 RETURN
270
271 Rsix:
272 OUTL = %00111110
273 LOW Right
274 HIGH Right
275 RETURN
276
277 Rseven:
278 OUTL = %11100000
279 LOW Right
280 HIGH Right
281 RETURN
282
283 Reight:
284 OUTL = %11111110
285 LOW Right
286 HIGH Right
287 RETURN
288
289 Rnine:
290 OUTL = %11100110
291 LOW Right
292 HIGH Right
293 RETURN
```