```pbasic
1  'Jonathan Duke
2  'Project #5a
3  ' {$STAMP BS2}
4  ' {$PBASIC 2.5}
5  dice VAR Word
6  counter VAR Word
7  btnWrk VAR Byte
8  paws VAR Word
9
10 Butt PIN 15
11
12 DO
13 GOSUB Main
14 LOOP
15
16 Main:
17 LOW 0:LOW 1:LOW 2:LOW 3:LOW 4:LOW 5:LOW 6:LOW 7
18 RANDOM dice
19 dice=dice/2
20 RANDOM dice
21 GOSUB Start
22 FOR counter = 0 TO 65535
23 IF IN15=1 THEN
24 FOR counter = 0 TO 95
25  GOSUB superspeednumcycle
26
27  NEXT
28 RANDOM dice
29 dice=dice/2
30 RANDOM dice
31
32
33
34 IF dice < 6554 THEN
35 LOW 0:LOW 1:LOW 2:LOW 3:LOW 4:LOW 5:LOW 6:LOW 7
36 PAUSE 250
37 GOSUB Zero
38 DEBUG CLS, "Zero"
39 PAUSE 495
40 GOSUB Alloff
41 PAUSE 500
42 GOSUB Zero
43 PAUSE 500
44 GOSUB Alloff
45 PAUSE 500
46 GOSUB Zero
47 PAUSE 500
48 GOSUB Alloff
49 RANDOM dice
50 GOSUB Main
51 ENDIF
52
53 IF dice < 13107 AND dice > 6554 THEN
54 LOW 0:LOW 1:LOW 2:LOW 3:LOW 4:LOW 5:LOW 6:LOW 7
55 PAUSE 250
56 GOSUB One
57 DEBUG CLS, "One"
58 PAUSE 495
59 GOSUB Alloff
60 PAUSE 500
61 GOSUB One
62 PAUSE 500
63 GOSUB Alloff
64 PAUSE 500
65 GOSUB One
```

```
 66 PAUSE 500
 67 GOSUB Alloff
 68 RANDOM dice
 69 GOSUB Main
 70 ENDIF
 71
 72 IF dice < 19961 AND dice > 13107 THEN
 73 LOW 0:LOW 1:LOW 2:LOW 3:LOW 4:LOW 5:LOW 6:LOW 7
 74 PAUSE 250
 75 GOSUB Two
 76 DEBUG CLS, "Two"
 77 PAUSE 495
 78 GOSUB Alloff
 79 PAUSE 500
 80 GOSUB Two
 81 PAUSE 500
 82 GOSUB Alloff
 83 PAUSE 500
 84 GOSUB Two
 85 PAUSE 500
 86 GOSUB Alloff
 87 RANDOM dice
 88 GOSUB Main
 89 ENDIF
 90
 91 IF dice < 26214 AND dice > 19661 THEN
 92 LOW 0:LOW 1:LOW 2:LOW 3:LOW 4:LOW 5:LOW 6:LOW 7
 93 PAUSE 250
 94 GOSUB Three
 95 DEBUG CLS, "Three"
 96 PAUSE 495
 97 GOSUB Alloff
 98 PAUSE 500
 99 GOSUB Three
100 PAUSE 500
101 GOSUB Alloff
102 PAUSE 500
103 GOSUB Three
104 PAUSE 500
105 GOSUB Alloff
106 RANDOM dice
107 GOSUB Main
108 ENDIF
109
110 IF dice < 32768 AND dice > 26214 THEN
111 LOW 0:LOW 1:LOW 2:LOW 3:LOW 4:LOW 5:LOW 6:LOW 7
112 PAUSE 250
113 GOSUB Four
114 DEBUG CLS, "Four"
115 PAUSE 495
116 GOSUB Alloff
117 PAUSE 500
118 GOSUB Four
119 PAUSE 500
120 GOSUB Alloff
121 PAUSE 500
122 GOSUB Four
123 PAUSE 500
124 GOSUB Alloff
125 RANDOM dice
126 GOSUB Main
127 ENDIF
128
129 IF dice < 39321 AND dice > 32768 THEN
130 LOW 0:LOW 1:LOW 2:LOW 3:LOW 4:LOW 5:LOW 6:LOW 7
```

```
131 PAUSE 250
132 GOSUB Five
133 DEBUG CLS, "Five"
134 PAUSE 495
135 GOSUB Alloff
136 PAUSE 500
137 GOSUB Five
138 PAUSE 500
139 GOSUB Alloff
140 PAUSE 500
141 GOSUB Five
142 PAUSE 500
143 GOSUB Alloff
144 RANDOM dice
145 GOSUB Main
146 ENDIF
147
148 IF dice < 45875 AND dice > 39321 THEN
149 LOW 0:LOW 1:LOW 2:LOW 3:LOW 4:LOW 5:LOW 6:LOW 7
150 PAUSE 250
151 GOSUB Six
152 DEBUG CLS, "Six"
153 PAUSE 495
154 GOSUB Alloff
155 PAUSE 500
156 GOSUB Six
157 PAUSE 500
158 GOSUB Alloff
159 PAUSE 500
160 GOSUB Six
161 PAUSE 500
162 GOSUB Alloff
163 RANDOM dice
164 GOSUB Main
165 ENDIF
166
167 IF dice < 52428 AND dice > 45875 THEN
168 LOW 0:LOW 1:LOW 2:LOW 3:LOW 4:LOW 5:LOW 6:LOW 7
169 PAUSE 250
170 GOSUB Seven
171 DEBUG CLS, "Seven"
172 PAUSE 495
173 GOSUB Alloff
174 PAUSE 500
175 GOSUB Seven
176 PAUSE 500
177 GOSUB Alloff
178 PAUSE 500
179 GOSUB Seven
180 PAUSE 500
181 GOSUB Alloff
182 RANDOM dice
183 GOSUB Main
184 ENDIF
185
186 IF dice < 58982 AND dice > 52428 THEN
187 LOW 0:LOW 1:LOW 2:LOW 3:LOW 4:LOW 5:LOW 6:LOW 7
188 PAUSE 250
189 GOSUB Eight
190 DEBUG CLS, "Eight"
191 PAUSE 495
192 GOSUB Alloff
193 PAUSE 500
194 GOSUB Eight
195 PAUSE 500
```

```
196 GOSUB Alloff
197 PAUSE 500
198 GOSUB Eight
199 PAUSE 500
200 GOSUB Alloff
201 RANDOM dice
202 GOSUB Main
203 ENDIF
204
205 IF dice > (58982) THEN
206 LOW 0:LOW 1:LOW 2:LOW 3:LOW 4:LOW 5:LOW 6:LOW 7
207 PAUSE 250
208 GOSUB Nine
209 DEBUG CLS, "Nine"
210 PAUSE 495
211 GOSUB Alloff
212 PAUSE 500
213 GOSUB Nine
214 PAUSE 500
215 GOSUB Alloff
216 PAUSE 500
217 GOSUB Nine
218 PAUSE 500
219 GOSUB Alloff
220 RANDOM dice
221 GOSUB Main
222 ENDIF
223
224 ELSE
225 DO
226  GOSUB superspeednumcycle
227 LOOP UNTIL (IN0=1)
228 ENDIF
229 NEXT
230
231 superspeednumcycle:
232 DEBUG ? counter
233 RANDOM dice
234 IF dice < 6554 THEN
235 GOSUB Zero
236 DEBUG CLS, "Zero"
237 ENDIF
238
239 IF dice < 13107 AND dice > 6554 THEN
240 GOSUB One
241 DEBUG CLS, "One"
242 ENDIF
243
244 IF dice < 19961 AND dice > 13107 THEN
245 GOSUB Two
246 DEBUG CLS, "Two"
247 ENDIF
248
249 IF dice < 26214 AND dice > 19961 THEN
250 GOSUB Three
251 DEBUG CLS, "Three"
252 ENDIF
253
254 IF dice < 32768 AND dice > 26214 THEN
255 GOSUB Four
256 DEBUG CLS, "Four"
257 ENDIF
258
259 IF dice < 39321 AND dice > 32768 THEN
260 GOSUB Five
```

```
261 DEBUG CLS, "Five"
262 ENDIF
263
264 IF dice < 45875 AND dice > 39321 THEN
265 GOSUB Six
266 DEBUG CLS, "Six"
267 ENDIF
268
269 IF dice < 52428 AND dice > 45875 THEN
270 GOSUB Seven
271 DEBUG CLS, "Seven"
272 ENDIF
273
274 IF dice < 58982 AND dice > 52428 THEN
275 GOSUB Eight
276 DEBUG CLS, "Eight"
277 ENDIF
278
279 IF dice > 58982 THEN
280 GOSUB Nine
281 DEBUG CLS, "Nine"
282 ENDIF
283
284 RETURN
285
286 Alloff:
287 LOW 0:LOW 1:LOW 2:LOW 3:LOW 4:LOW 5:LOW 6:LOW 7
288 RETURN
289
290 Start:
291 DEBUG CLS, "Press button to start"
292 RETURN
293
294 Zero:
295 HIGH 0:HIGH 1:HIGH 2:LOW 3:LOW 4:HIGH 5:HIGH 6:HIGH 7
296 RETURN
297
298 One:
299 LOW 0:LOW 1:HIGH 2:LOW 3:LOW 4:LOW 5:LOW 6:HIGH 7
300 RETURN
301
302 Two:
303 HIGH 0:HIGH 1:LOW 2:LOW 3:HIGH 4:LOW 5:HIGH 6:HIGH 7
304 RETURN
305
306 Three:
307 LOW 0:HIGH 1:HIGH 2:LOW 3:HIGH 4:LOW 5:HIGH 6:HIGH 7
308 RETURN
309
310 Four:
311 LOW 0:LOW 1:HIGH 2:LOW 3:HIGH 4:HIGH 5:LOW 6:HIGH 7
312 RETURN
313
314 Five:
315 LOW 0:HIGH 1:HIGH 2:LOW 3:HIGH 4:HIGH 5:HIGH 6:LOW 7
316 RETURN
317
318 Six:
319 HIGH 0:HIGH 1:HIGH 2:LOW 3:HIGH 4:HIGH 5:HIGH 6:LOW 7
320 RETURN
321
322 Seven:
323 LOW 0:LOW 1:HIGH 2:LOW 3:LOW 4:LOW 5:HIGH 6:HIGH 7
324 RETURN
325
```

```
326 Eight:
327 HIGH 0:HIGH 1:HIGH 2:LOW 3:HIGH 4:HIGH 5:HIGH 6:HIGH 7
328 RETURN
329
330 Nine:
331 LOW 0:HIGH 1:HIGH 2:LOW 3:HIGH 4:HIGH 5:HIGH 6:HIGH 7
332 RETURN
333
```