```
 1: ()
 2: Prgm
 3: ©CycleGen 2.1 makes graph animations.
 4: See on-computer documentation for more information.
 5: Local recur,fldinitd,outfldr,varprfx,ovrwprev,allowarc,forcearc,fillmem,
    memthres,arcthres,mem,maxsteps,looping,err:0→fldinitd:0→looping:0→err
 6: misc\statline("msg:Starting CycleGen 2.1")
 7:
 8:
 9: © Script flags
10: "ctmp"→outfldr
11: "p"→varprfx
12: 1→ovrwprev
13: 0→allowarc
14: 0→forcearc
15: 0→fillmem
16: 8192→memthres
17: 8192→arcthres
18: 50→maxsteps
19:
20:
21: ©↓ Continue below this
22: Goto dofldch:Lbl cont:1→fldinitd:DelVar start,step,end
23:
24:
25: 0→start
26: ©1→step
27: 5→end
28:
29:
30: © Init global vars here
31:
32:
33:
34: If looping=0 Then:Goto noloop:EndIf:Lbl loopc
35:
36: © Looping code goes here
37:
38:
39:
40:
41: If looping=1 Then:Goto postloop:EndIf:Lbl noloop
42:
43:
44:
45: ©↓ Script internals below
46: misc\statline("msg:Beginning initialization…")
47:
48: Lbl dofldch
49: If fldinitd=1 Then
50:  Goto skpfldch
51: EndIf
52:
53: Try
54:  NewFold #outfldr
55: Else
56:  ClrErr
57:  setFold(#outfldr)
58: EndTry
59: Goto cont
60: Lbl skpfldch
```

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 61:
 62: misc\statline("msg:Getting RAM info…")
 63: misc\getfree()→mem
 64:
 65: If mem[1]<8192 Then
 66:  Dialog
 67:   Title "CycleGen Oopsie #1"
 68:   Text "Please free up some RAM"
 69:   Text ""
 70:   Text "(At least 8192B required to start)"
 71:   Text "(You currently have "&string(mem[1])&"B free)"
 72:  EndDlog
 73:  1→err
 74:  Goto quit
 75: EndIf
 76:
 77: misc\statline("msg:Calculating memory management stuff…")
 78: If fillmem=1 Then
 79:  If allowarc=0 Then
 80:   iPart((mem[1]-memthres)/1547)-2→maxsteps
 81:  Else
 82:   iPart((mem[1]-memthres+mem[2]-arcthres)/1547)-2→maxsteps
 83:  EndIf
 84:
 85:  If forcearc=1 Then
 86:   iPart((mem[2]-arcthres)/1547)-2→maxsteps
 87:  EndIf
 88: EndIf
 89:
 90: If maxsteps≤1 Then
 91:  Dialog
 92:   Title "CycleGen Oopsie #2"
 93:   Text "maxsteps is ≤ 1"
 94:   Text ""
 95:   Text "(Try increasing it)"
 96:   Text "(Or setting fillmem=0)"
 97:  EndDlog
 98:  2→err
 99:  Goto quit
100: EndIf
101:
102: If maxsteps>999 Then
103:  999→maxsteps
104: EndIf
105:
106: misc\statline("msg:Autocomputing start/step/end…")
107: If not isVar(end) Then
108:  start+step*maxsteps→end
109: ElseIf not isVar(step) Then
110:  (end-start)/maxsteps→step
111: ElseIf not isVar(start) Then
112:  end-step*maxsteps→start
113: EndIf
114:
115: misc\statline("msg:Managing conflicting variables…")
116: If ovrwprev=0 Then
117:  For recur,1,maxsteps
118:   If isVar(#(varprfx&string(recur))) Then
119:    Dialog
120:     Title "CycleGen Oopsie #3"
121:     Text "Please delete your old pics"
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122:      Text ""
123:      Text "(ovrwprev=0)"
124:      Text "(Found: "&outfldr&"\"&varprfx&string(recur)&")"
125:      Text ""
126:      Text "(Alternatively, change varprfx)"
127:    EndDlog
128:    1→err
129:    Goto quit
130:   EndIf
131:  EndFor
132: Else
133:  For recur,1,maxsteps
134:   If isVar(#(varprfx&string(recur))) Then
135:    Unarchiv #(varprfx&string(recur))
136:    DelVar #(varprfx&string(recur))
137:   EndIf
138:  EndFor
139: EndIf
140:
141: 1→looping
142: For recur,1,maxsteps
143:  misc\statline("msg:Rendering frame "&string(recur)&"/"&string(maxsteps))
144:  ClrDraw
145:
146:  Goto loopc
147:  Lbl postloop
148:
149:  DispG
150:  StoPic #(varprfx&string(recur))
151:  misc\apdreset()
152:  misc\getfree()→mem
153:  If mem[1]<memthres Then
154:   If allowarc=1 Then
155:    Try
156:     Archive #(varprfx&string(recur))
157:    Else
158:     ClrErr
159:     Dialog
160:      Title "CycleGen Oopsie #4"
161:      Text "Could not archive variable"
162:      Text ""
163:      Text "(Try freeing up some space)"
164:      Text "(Or replace your batteries)"
165:     EndDlog
166:     1→err
167:     Goto quit
168:    EndTry
169:   Else
170:    Dialog
171:     Title "CycleGen Oopsie #5"
172:     Text "Out of RAM"
173:     Text ""
174:     Text "(Set allowarc=1)"
175:     Text "(Or free up some RAM)"
176:    EndDlog
177:    1→err
178:    Goto quit
179:   EndIf
180:  EndIf
181:
182:  If forcearc=1 Then
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183:    If not isArchiv(#(varprfx&string(recur))) Then
184:      Try
185:        Archive #(varprfx&string(recur))
186:      Else
187:        ClrErr
188:        Dialog
189:          Title "CycleGen Oopsie #6"
190:          Text "Could not archive variable"
191:          Text ""
192:          Text "(Try freeing up some space)"
193:          Text "(Or replace your batteries)"
194:        EndDlog
195:        1→err
196:        Goto quit
197:      EndTry
198:    EndIf
199:  EndIf
200: EndFor
201:
202:
203: Lbl quit
204:
205: DelVar start,step,end
206: setFold(main)
207: DispHome
208:
209: If err=0 Then
210:  misc\statline("msg:Done! Thanks for using CycleGen 2.1")
211: ElseIf err=1 Then
212:  misc\statline("msg:Aborted CycleGen 2.1: memory error")
213: ElseIf err=2 Then
214:  misc\statline("msg:Aborted CycleGen 2.1: maxsteps ≤1")
215: EndIf
216:
217: EndPrgm
```