```
' {$STAMP BS2}
' {$PBASIC 2.5}
'Mathematics with the Boe-Bot-Maze1.bs2
'Mr. Jeremy Smoyer
'This program navigates a pre-defined maze using loops and pulsout
'to active the servos as appropriate.

DEBUG "Program Active!"

counter VAR WORD

FREQOUT 4, 2000, 3000

PAUSE 5000 '5 second pause to get into position

FOR counter = 1 TO 265 'Forward leg 1

     PULSOUT 12,650
     PULSOUT 13,850
     PAUSE 20

NEXT

FOR counter = 1 TO 62 'Pivot Right 90 degrees

     PULSOUT 13, 850
     PULSOUT 12,750
     PAUSE 20

NEXT

FOR counter = 1 TO 35 'Forward leg 2

     PULSOUT 12,650
     PULSOUT 13,850
     PAUSE 20

NEXT

FOR counter = 1 TO 31 'Pivot Left 90 degrees

     PULSOUT 13, 750
     PULSOUT 12,650
```

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      PAUSE 20

NEXT

FOR counter = 1 TO 45 'Forward leg 3

      PULSOUT 12,650
      PULSOUT 13,850
      PAUSE 20

NEXT

FOR counter = 1 TO 60 'Pivot Right 90 degrees

      PULSOUT 13, 850
      PULSOUT 12,750
      PAUSE 20

NEXT

FOR counter = 1 TO 30 'Forward leg 4

      PULSOUT 12,650
      PULSOUT 13,850
      PAUSE 20

NEXT

FOR counter = 1 TO 65 'Pivot Right 90 degrees

      PULSOUT 13, 850
      PULSOUT 12,750
      PAUSE 20

NEXT

FOR counter = 1 TO 25 'Forward leg 5

      PULSOUT 12,650
      PULSOUT 13,850
      PAUSE 20

NEXT
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FOR counter = 1 TO 70 'Pivot Right 90 degrees

     PULSOUT 13, 850
     PULSOUT 12,750
     PAUSE 20

NEXT

FOR counter = 1 TO 105 'Forward leg 6

     PULSOUT 12,650
     PULSOUT 13,850
     PAUSE 20

NEXT

FOR counter = 1 TO 35 'Pivot Left 90 degrees

     PULSOUT 13, 750
     PULSOUT 12,650
     PAUSE 20

NEXT

FOR counter = 1 TO 265 'Forward leg 7

     PULSOUT 12,650
     PULSOUT 13,850
     PAUSE 20

NEXT

END
```