```
Costants and Utility Function used by Cell and Matrix
 4
 5 from sys import version_info
7 # Flag Constants
                    # Backtrace Up Flag
8 BTFLAG UP = 1
9 BTFLAG_LEFT = 2
                     # Backtrace Left Flag
10 BTFLAG_DIAG = 4 # Backtrace Diagonal Flag
11
12 # unicode characters - need Python 3!
13 if version_info.major == 3:
    BTMATRIX_SYMBOLS = [
15
           п п
                                 # 0 - No flags were set
16
           "\u2191",
                                 # 1 - Up flag set
           "\u2190",
17
                                 # 2 - Left flag set
           "\u2190\u2191",
                                # 3 - Up flag and Left flag set
18
           "\u2196",
19
                                # 4 - Diagonal flag set
           "\u2196\u2191",
                            # 5 - Diagonal flag and Up flag set
# 6 - Diagonal flag and Left flag set
20
           "\u2196\u2190",
21
           "\u2196\u2190\u2191",  # 7 - All flags are set
22
23 ]
24 else:
   BTMATRIX_SYMBOLS = [
25
        " ",
                                  # 0 - No flags were set
26
           "U",
                                  # 1 - Up flag set
27
28
           "L",
                                 # 2 - Left flag set
           "U",
29
                                 # 3 - Up flag and Left flag set
30
           "G",
                                 # 4 - Diagonal flag set
           "G",
31
                                 # 5 - Diagonal flag and Up flag set
           "G",
32
                                # 6 - Diagonal flag and Left flag set
33
           "G",
                                # 7 - All flags are set
34
      ]
35
36 # Spacing constant
37 FORMAT_SPACING = 4
38
39 def CellFormat (value):
40
       Returns a right justified string based on spacing constant.
41
42
       Returns a str()
43
         -Returns the string " ###..." if the value passed to large to display
44
           with the current spacing
45
46
      value_length = len(str(value))
47
      if value_length >= FORMAT_SPACING:
          return " " + "#" * (FORMAT_SPACING - 1)
48
49
       else:
50
           return " " * (FORMAT_SPACING - value_length) + str(value)
```