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```

=====
=== Compiling with gcc -Wall -o ass2 *.c -lm
=====
5  === Compilation finished
    === Submission testing begins
    === test 1: ass2 < test7.txt
    === Output: matches expectations
    ==STAGE 0=====
10  The grid has 10 rows and 10 columns.
    The grid has 39 block(s).
    The initial cell in the grid is [0,0].
    The goal cell in the grid is [9,0].
    The proposed route in the grid is:
15  [0,0]->[1,0]->[2,0]->[3,0]->[4,0]->
    [4,1]->[4,2]->[5,2]->[6,2]->[7,2]->
    [8,2]->[9,2]->[9,1]->[9,0].
    There is a block on this route!
    ==STAGE 1=====
20  0123456789
    0I# # # # #
    1*#
    2*# #####
    3*#
25  4***#####
    5#### #
    6  *  # ##
    7  *#  ###
    8  *# #
30  9G**# # # #
    -----
    0123456789
    0I# # # # #
    1*#
35  2*# #####
    3*#*****
    4***#####*
    5#### #****
    6  ***#*##
40  7  *#***###
    8  *# #
    9G**# # # #
    -----
    [0,0]->[1,0]->[2,0]->[3,0]->[4,0]->
45  [4,1]->[4,2]->[3,2]->[3,3]->[3,4]->
    [3,5]->[3,6]->[3,7]->[3,8]->[3,9]->
    [4,9]->[5,9]->[5,8]->[5,7]->[5,6]->
    [6,6]->[7,6]->[7,5]->[7,4]->[6,4]->
50  [6,3]->[6,2]->[7,2]->[8,2]->[9,2]->
    [9,1]->[9,0].
    The route is valid!
    =====
    =====
    === test 2: ass2 < test8.txt
55  === Output: differs from expectations
    ==STAGE 0=====
    The grid has 10 rows and 10 columns.
    The grid has 39 block(s).
    The initial cell in the grid is [0,0].
60  The goal cell in the grid is [9,0].
    The proposed route in the grid is:
    [0,0]->[1,0]->[2,0]->[3,0]->[4,0]->
    [4,1]->[4,2]->[5,2]->[6,2]->[7,2]->
    [8,2]->[9,2]->[9,1]->[9,0].
65  There is a block on this route!
    ==STAGE 1=====
    0123456789
    0I# # # # #
    1*#
70  2*# #####
    3*#
    4***#####
    5#### #
    6  *  # ##

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75 7 *#   ###
   8 *#  #
   9G*# # # #
-----
   0123456789
80 0I# # # # #
   1*#
   2*# #####
   3*#*****
   4*#####*
85 5#####*
   6 ***#*##
   7 *#***###
   8 *#  #
   9G*# # # #
-----
90 [0,0]->[1,0]->[2,0]->[3,0]->[4,0]->
   [4,1]->[4,2]->[3,2]->[3,3]->[3,4]->
   [3,5]->[3,6]->[3,7]->[3,8]->[3,9]->
95 [4,9]->[5,9]->[5,8]->[5,7]->[5,6]->
   [6,6]->[7,6]->[7,5]->[7,4]->[6,4]->
   [6,3]->[6,2]->[7,2]->[8,2]->[9,2]->
   [9,1]->[9,0].
   The route is valid!
+ ==STAGE 2=====
100 + 0123456789
+ 0I
+ 1#
+ 2*
+ 3* *****
105 + 4***      *
+ 5          ****
+ 6      *** *
+ 7      * ***
+ 8      *
110 + 9G*#
+ -----
+ 0123456789
+ 0I*
+ 1#*
115 + 2**
+ 3* *****
+ 4***      *
+ 5          ****
+ 6      *** *
120 + 7      * ***
+ 8      **
+ 9G*#
+ -----
+ [0,0]->[0,1]->[1,1]->[2,1]->[2,0]->
125 + [3,0]->[4,0]->[4,1]->[4,2]->[3,2]->
+ [3,3]->[3,4]->[3,5]->[3,6]->[3,7]->
+ [3,8]->[3,9]->[4,9]->[5,9]->[5,8]->
+ [5,7]->[5,6]->[6,6]->[7,6]->[7,5]->
+ [7,4]->[6,4]->[6,3]->[6,2]->[7,2]->
130 + [8,2]->[8,1]->[9,1]->[9,0].
+ The route is valid!
+ =====
+ 0123456789
+ 0I*
135 + 1 *      #
+ 2**      #
+ 3* *****##*
+ 4***      # *
+ 5          *##*
140 + 6      *** *#
+ 7      * ***#
+ 8      **   #
+ 9G*
+ -----
145 + 0123456789
+ 0I*
+ 1 *      #
+ 2**      #

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+ 3* *****#
150 + 4***   *#
+ 5       *#
+ 6   *** *#
+ 7   *   *#
+ 8  **   #
155 + 9G*
+ -----
+ [0,0]->[0,1]->[1,1]->[2,1]->[2,0]->
+ [3,0]->[4,0]->[4,1]->[4,2]->[3,2]->
+ [3,3]->[3,4]->[3,5]->[3,6]->[4,6]->
160 + [5,6]->[6,6]->[7,6]->[7,5]->[7,4]->
+ [6,4]->[6,3]->[6,2]->[7,2]->[8,2]->
+ [8,1]->[9,1]->[9,0].
+ The route is valid!
+ =====
165 + 0123456789
+ 0I*
+ 1 *
+ 2**   #
+ 3* *****##
170 + 4***   ###
+ 5#####
+ 6   *** ###
+ 7   *   *##
+ 8  **   #
175 + 9G*
+ -----
+ 0123456789
+ 0I*
+ 1 *       ***
180 + 2**   **#*
+ 3* *****##*
+ 4***   ###*
+ 5#####*
+ 6   *** ###*
185 + 7   *   *##*
+ 8  **   * #*
+ 9G*   ****
+ -----
+ [0,0]->[0,1]->[1,1]->[2,1]->[2,0]->
190 + [3,0]->[4,0]->[4,1]->[4,2]->[3,2]->
+ [3,3]->[3,4]->[3,5]->[3,6]->[2,6]->
+ [2,7]->[1,7]->[1,8]->[1,9]->[2,9]->
+ [3,9]->[4,9]->[5,9]->[6,9]->[7,9]->
+ [8,9]->[9,9]->[9,8]->[9,7]->[9,6]->
195 + [8,6]->[7,6]->[7,5]->[7,4]->[6,4]->
+ [6,3]->[6,2]->[7,2]->[8,2]->[8,1]->
+ [9,1]->[9,0].
+ The route is valid!
+ =====
200 + 0123456789
+ 0I*
+ 1 *       ***
+ 2**   ** *
+ 3* ***** *
205 + 4***   *
+ 5       *
+ 6   *** *
+ 7   *   *
+ 8  **   *
210 + 9G*   ****
+ =====
+ 0123456789
+ 0I* #
+ 1 * #   ***
215 + 2** # ** *
+ 3* **##* *
+ 4*** #   *
+ 5   #   *
+ 6 **#   *
220 + 7 * ##* *
+ 8 ** # * *
+ 9G* # ****

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+ -----
+ 0123456789
225 + 0I*  #
+ 1 *  #
+ 2**  #
+ 3* **#
+ 4****#
230 + 5 *  #
+ 6 **  #
+ 7 *  #
+ 8 **  #
+ 9G*  #
235 + -----
+ [0,0]->[0,1]->[1,1]->[2,1]->[2,0]->
+ [3,0]->[4,0]->[4,1]->[4,2]->[3,2]->
+ [3,3]->[4,3]->[5,3]->[6,3]->[6,2]->
+ [7,2]->[8,2]->[8,1]->[9,1]->[9,0].
240 + The route is valid!
+ =====
+ === test 3: ass2 < test9.txt
+ == Output: differs from expectations
245 + ==STAGE 0=====
+ The grid has 15 rows and 30 columns.
+ The grid has 0 block(s).
+ The initial cell in the grid is [6,1].
+ The goal cell in the grid is [6,28].
250 + The proposed route in the grid is:
+ [6,1]->[6,2]->[6,3]->[6,4]->[6,5]->
+ [6,6]->[6,7]->[6,8]->[6,9]->[6,10]->
+ [6,11]->[6,12]->[6,13]->[6,14]->[6,15]->
+ [6,16]->[6,17]->[6,18]->[6,19]->[6,20]->
255 + [6,21]->[6,22]->[6,23]->[6,24]->[6,25]->
+ [6,26]->[6,27]->[6,28].
+ The route is valid!
+ ==STAGE 1=====
+ 012345678901234567890123456789
260 + 0
+ 1
+ 2
+ 3
+ 4
265 + 5
+ 6 I*****G
+ 7
+ 8
+ 9
270 + 0
+ 1
+ 2
+ 3
+ 4
275 + ==STAGE 2=====
+ + 012345678901234567890123456789
+ + 0
+ + 1
+ + 2
280 + + 3
+ + 4
+ + 5
+ + 6#I#*****#G#
+ + 7
285 + + 8
+ + 9
+ + 0
+ + 1
+ + 2
290 + + 3
+ + 4
+ -----
+ + 012345678901234567890123456789
+ + 0
295 + + 1
+ + 2

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+ 3
+ 4
+ 5 ***
300 + 6#I#*****#G#
+ 7
+ 8
+ 9
+ 0
305 + 1
+ 2
+ 3
+ 4
+ -----
310 + [6,1]->[5,1]->[5,2]->[5,3]->[6,3]->
+ [6,4]->[6,5]->[6,6]->[6,7]->[6,8]->
+ [6,9]->[6,10]->[6,11]->[6,12]->[6,13]->
+ [6,14]->[6,15]->[6,16]->[6,17]->[6,18]->
+ [6,19]->[6,20]->[6,21]->[6,22]->[6,23]->
315 + [6,24]->[6,25]->[6,26]->[5,26]->[5,27]->
+ [5,28]->[6,28].
+ The route is valid!
+ =====
+ 012345678901234567890123456789
320 + 0
+ 1
+ 2
+ 3
+ 4
325 + 5 *** # #
+ 6 I ****#*****#***** G
+ 7 # #
+ 8 # #
+ 9
330 + 0
+ 1
+ 2
+ 3
+ 4
+ -----
335 + 012345678901234567890123456789
+ 0
+ 1
+ 2
340 + 3 #
+ 4 #
+ 5 *** **#* # ***
+ 6 I ****# *****#***** G
+ 7 # *#*
345 + 8 # *#*
+ 9 ***
+ 0
+ 1
+ 2
350 + 3
+ 4
+ -----
+ [6,1]->[5,1]->[5,2]->[5,3]->[6,3]->
+ [6,4]->[6,5]->[6,6]->[5,6]->[5,7]->
355 + [4,7]->[4,8]->[4,9]->[5,9]->[6,9]->
+ [6,10]->[6,11]->[6,12]->[6,13]->[6,14]->
+ [6,15]->[6,16]->[6,17]->[6,18]->[7,18]->
+ [8,18]->[9,18]->[9,19]->[9,20]->[8,20]->
+ [7,20]->[6,20]->[6,21]->[6,22]->[6,23]->
360 + [6,24]->[6,25]->[6,26]->[5,26]->[5,27]->
+ [5,28]->[6,28].
+ The route is valid!
+ =====
+ 012345678901234567890123456789
365 + 0
+ 1
+ 2
+ 3
+ 4
+ 5 *** ** *
370 + 5 *** ** * #####

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445 + =====
+ 012345678901234567890123456789
+ 0          *##
+ 1          *##*
+ 2          *##*
450 + 3          *##*
+ 4          **##*
+ 5 *** ** *##          ###
+ 6 I **** *##### G
+ 7          #          # #
455 + 8          #          # #
+ 9          #          ###
+ 0          #
+ 1          #
+ 2          #
460 + 3          #
+ 4
+ -----
+ 012345678901234567890123456789
+ 0          *#
465 + 1          *#
+ 2          *#
+ 3          *#
+ 4          **#          *****
+ 5 *** ** *#####*
470 + 6 I **** *##### G*
+ 7          *##          # #
+ 8          *##          # #
+ 9          *##          ###
+ 0          *##
475 + 1          *##
+ 2          *##
+ 3          *##
+ 4          ***
+ -----
480 + [6,1]->[5,1]->[5,2]->[5,3]->[6,3]->
+ [6,4]->[6,5]->[6,6]->[5,6]->[5,7]->
+ [4,7]->[4,8]->[3,8]->[2,8]->[1,8]->
+ [0,8]->[1,8]->[2,8]->[3,8]->[4,8]->
+ [5,8]->[6,8]->[7,8]->[8,8]->[9,8]->
485 + [10,8]->[11,8]->[12,8]->[13,8]->[14,8]->
+ [14,9]->[14,10]->[13,10]->[12,10]->[11,10]->
+ [10,10]->[9,10]->[8,10]->[7,10]->[6,10]->
+ [6,11]->[6,12]->[6,13]->[6,14]->[5,14]->
+ [5,15]->[5,16]->[5,17]->[5,18]->[5,19]->
490 + [5,20]->[5,21]->[5,22]->[5,23]->[5,24]->
+ [5,25]->[4,25]->[4,26]->[4,27]->[4,28]->
+ [4,29]->[5,29]->[6,29]->[6,28].
+ The route is valid!
+ =====
495 + =====
+ === Submission testing ended
+ =====

```