Output of the given particular input

// INPUT

S . . . . ~ . . ^ .

# # # . . ~ # . ^ .

. . . # . . # . . .

. ~ ~ # . . . . . .

. . . . . # # # # .

^ ^ . . . . . . ~ .

# . . . . # ~ ~ ~ .

. . # # . . . . . .

. . . . . ^ ^ ^ ^ G

. # # # # # # . . .

// OUTPUT

MINIMUM COST TO REACH END POINT : 16

PATH USED BY ROBOT : (0, 0) ->(0, 1) ->(0, 2) ->(0, 3) ->(0, 4) ->(1, 4) ->(2, 4) ->(2, 5) ->(3, 5) ->(3, 6) ->(3, 7) ->(3, 8) ->(3, 9) ->(4, 9) ->(5, 9) ->(6, 9) ->(7, 9) ->(8, 9)