```
import math
import heapq
      self.parent i = 0 # Parent cell's row index
      self.parent j = 0 # Parent cell's column index
def trace_path(cell_details, dest):
  while not (cell details[row][col].parent i == row and cell details[row][col].parent j == col):
      path.append((row, col))
```

```
temp_row = cell_details[row][col].parent_i
    temp col = cell details[row][col].parent j
path.append((row, col))
   print("->", i, end=" ")
    print("Source or destination is invalid")
   print("We are already at the destination")
cell details = [[Cell() for in range(COL)] for in range(ROW)]
cell details[i][j].f = 0
```

```
cell details[i][j].parent i = i
open list = []
heapq.heappush(open list, (0.0, i, j))
while len(open list) > 0:
   p = heapq.heappop(open list)
   i = p[1]
   j = p[2]
                cell_details[new_i][new_j].parent_i = i
                cell details[new i][new j].parent j = j
                found dest = True
```

```
heapq.heappush(open_list, (f_new, new_i, new_j))
                      cell_details[new_i][new_j].parent_i = i
                       cell_details[new_i][new_j].parent_j = j
def main():
  grid = [
```