Complexity Documentation

Main-searchFloorArrive Algorithm

int[][]building=new int[numFloors][office];	1
int numberOffice=numFloors*office;	1
Int floor=0;	1
for(int i=0;i <numfloors; i++)="" td="" {<=""><td>n+1</td></numfloors;>	n+1
for(int j=0;j <office;j++) td="" {<=""><td>n*m+1</td></office;j++)>	n*m+1
building[i][j]=numberOffice;	n*m
numberOffice;	n*m
for(int i=0;i <numfloors; i++)="" td="" {<=""><td>n+1</td></numfloors;>	n+1
for(int j=0;j <office;j++) td="" {<=""><td>n*m+1</td></office;j++)>	n*m+1
if(building[i][j]==officeB) {	n*m
floor=i+1;	1
return floor;	1

Time Complexity = 5mn + 2n + 9 = O(m * n)

Tipo	Variable	Valores atómicos
Entrada	numFloors	1
	office	1
	officeB	1
Auxiliar	Builiding	n*m
	numberoffice	1
Salida	floor	1

Space Complexity = mn + 5 = O(m * n)

Max_PriorityQueue-swap Algorithm

E temp=get(i);	1
Node[i]=get(j);	1
Node[j]=temp;	1

Time Complexity = 3 = O(1)

Tipo	Variable	Valores atómicos
Entrada	i	1
	j	1
Auxiliar	temp	1
	Node[i]	1
	Node[j]	1
Salida		0

Space Complexity = 5 = 0(1)