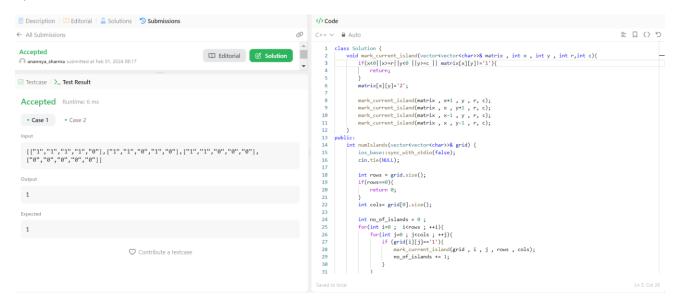
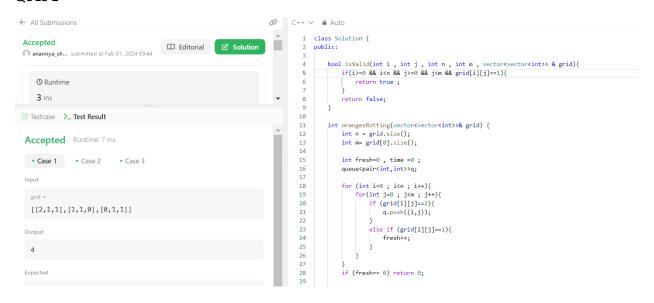
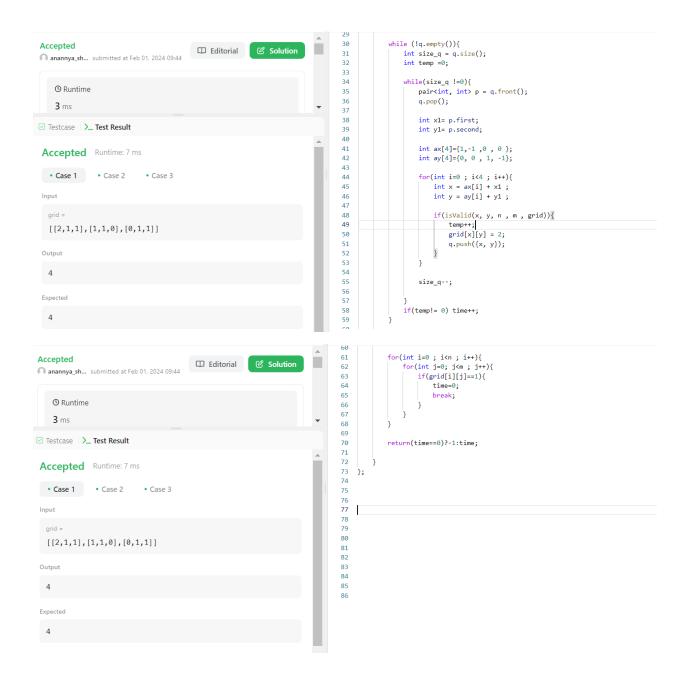
## QUES 1



## QUES 2





## QUES 4

```
nannya_sh... submitted at Feb 01, 2024 12:40
                                                                                                                      1 class Solution {
                                                                                                                                   void dfs(vector<vector<int>>> &image , int sr , int sc, int color , int rows, int cols , int source){
    if(sr<0 || sr>=rows || sc<0 || sc>=cols){
     O Runtime
                                                                                                                                        else if(image[sr][sc]!=source){
                                                                                                                                             return:
      Beats 54.12% of users with C++
                                                                                                                                       }
image[sr][sc]= color;
dfs(image , sr-1 , sc, color , rows , cols , source);
dfs(image , sr+1 , sc, color , rows , cols , source);
dfs(image , sr , sc-1, color , rows , cols , source);
dfs(image , sr , sc+1, color , rows , cols , source);
                                                                                                                      10
11
12
Accepted Runtime: 0 ms
  • Case 1 • Case 2
                                                                                                                            public:
                                                                                                                                        tor<vector<int>>> floodFill(vector<vector<int>>>& image, int sr, int sc, int color) {
   if(color==image[sr][sc]){
 Input
                                                                                                                                              return image;
   [[1,1,1],[1,1,0],[1,0,1]]
                                                                                                                                       am rows= image.size();
int cols = image[0].size();
int source = image[sr][sc];
dfs(image , sr , sc, color , rows , cols , source );
return image;
    1
```

## QUES 5

```
\label{lem:shortestPathBinaryMatrix} $$ shortestPathBinaryMatrix(vector<vector<int>>% grid) {      queue <pair<pair<int,int>,int>> q;      q.push({\{0,0\},1\}});      } 
                             mitted at Feb 01, 2024 13:03
 Accepted
                                                                                                                                                                             if(grid[0][0]== 1) return -1;

    Runtime

                                                                                                                                                                            if (grid[0][0]==0 && grid.size()==1 && grid[0].size()==1) return 1;
vector<vector<br/>vector<br/>vector<br/>(grid.size(), false));
visited[0][0]=true;
       83 ms
                                                                                                                                                                            while(!q.empty()){
    pair<int,int>p= q.front().first;
    int x = p.first;
    int y = p.second;
    int lengthOfPath = q.front().second;
Accepted Runtime: 3 ms
  • Case 1 • Case 2 • Case 3
                                                                                                                                                                                    vector<psircint, int>> neighbours = {{0,1}, {0,-1}, {1,0}, {-1,0}, {1,1}, {-1,-1}, {1,-1}, {-1,1}};
for(psircint,int> neighbour : neighbours){
   int newx = neighbour.first+x;
   int newy = neighbour.secondy;
   if(nexx)=0 && nexy=0 && nexy=ind.size() && newy<grid[0].size() && grid[newx][newy]==0 && !visited[newx][newy]){
        q.push((newx = newy), lengthOfPath+1);
        visited[newx][newy] = true;</pre>
                                                                                                                         ď
   [[0,1],[1,0]]
                                                                                                                                                                                                  if(newx == grid.size()-1 && newy== grid[0].size()-1){
    return lengthOfPath+1;
 Expected
```

S