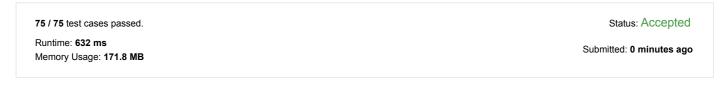




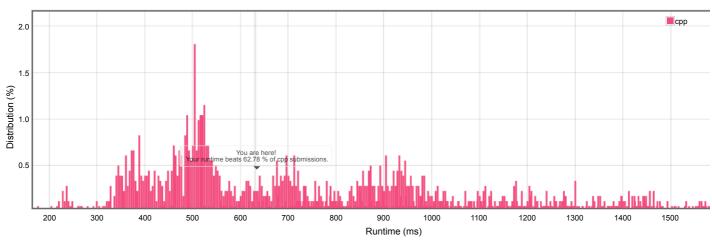


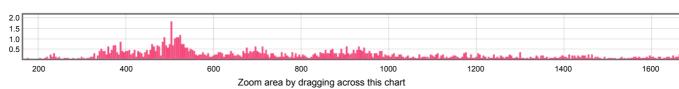
Making A Large Island (/problems/making-a-large-island/)

Submission Detail

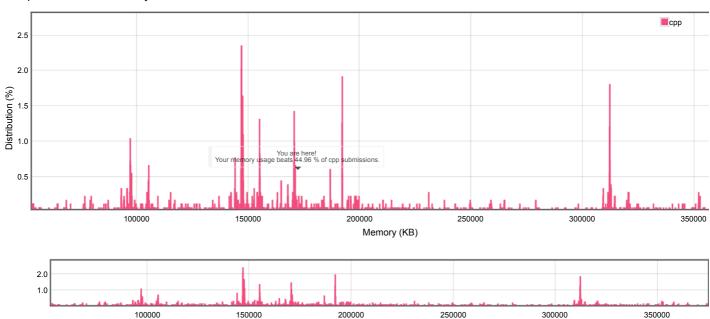


Accepted Solutions Runtime Distribution





Accepted Solutions Memory Distribution



Zoom area by dragging across this chart

Invite friends to challenge Making A Large Island

Submitted Code: 0 minutes ago

Language: cpp

Edit Code

- class Solution {
 public:

```
int n,m;
              /*almacena el tamaño de cada componente conectado asignando un ID a cada celda del componente conectado que actuará como una clave en el m
              std::unordered_map<int, int> tam;
              /*almacena -1 para la celda que no se visito y la identificación de celda para la visitada*/int A[502][502];
  6
7
  8
9
             // islandNum es el ID
int dfs(int i, int j, std::vector<std::vector<int>>& grid, int islandNum){
   if(i<0 || i>=n || j<0 || j>=m || grid[i][j]==0 || A[i][j]!=-1){
 10
11
12
13
                         return 0;
14
                   /*todos los componentes conectados tienen la misma identificación*/ A[i][j]=islandNum; int tam=1;
15
16
17
                   tnt tam=1;
tam+=dfs(i+1,j,grid,islandNum);
tam+=dfs(i-1,j,grid,islandNum);
tam+=dfs(i,j+1,grid,islandNum);
tam+=dfs(i,j-1,grid,islandNum);
return tam;
18
19
20
21
22
23
24
             }
25
26
             int largestIsland(std::vector<std::vector<int>>& grid) {
    n=grid.size();
                   m=grid[0].size();
memset(A,-1,sizeof(A));
27
28
                  memset(A,--,.
int l=1;
for(int i=0;i<n;i++){
    for(int j=0;j<m;j++){
        if(grid[i][j]==1 && A[i][j]==-1){
            tam[l]=dfs(i, j, grid, l);
}</pre>
29
30
31
32
33
34
35
36
                               }
                         }
37
                   }
38
39
                    int maxarea=0;
40
41
                   for(int i=0;i<n;i++){
    for(int j=0;j<m;j++)</pre>
42
43
                             /*si encontramos un 0, intentaremos encontrar los componentes conectados con diferentes IDs*/
44
45
                                if(grid[i][j]==0)
46
                                       int area=1;
                                      std::set<int> s;
if(i+1<n)
s.insert(A[i+1][j]);</pre>
47
48
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55
56
57
                                       if(i-1>=0)
                                       s.insert(A[i-1][j]);
                                       if(j+1<m)
                                       s.insert(A[i][j+1]);
                                       if(j-1>=0)
s.insert(A[i][j-1]);
for(int c: s){
                                            area+=tam[c]; // agregando tam para cada componente conectado único
59
60
                                       maxarea=std::max(maxarea, area);
                               }
61
62
63
64
                         }
                    if(maxarea!=0)
                    return maxareá;
65
                    return n*m:
67
       };
```

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