Minimum Falling Path Sum II (/problems/minimum-falling-path-sum-ii/)

Submission Detail

16 / 16 test cases passed.

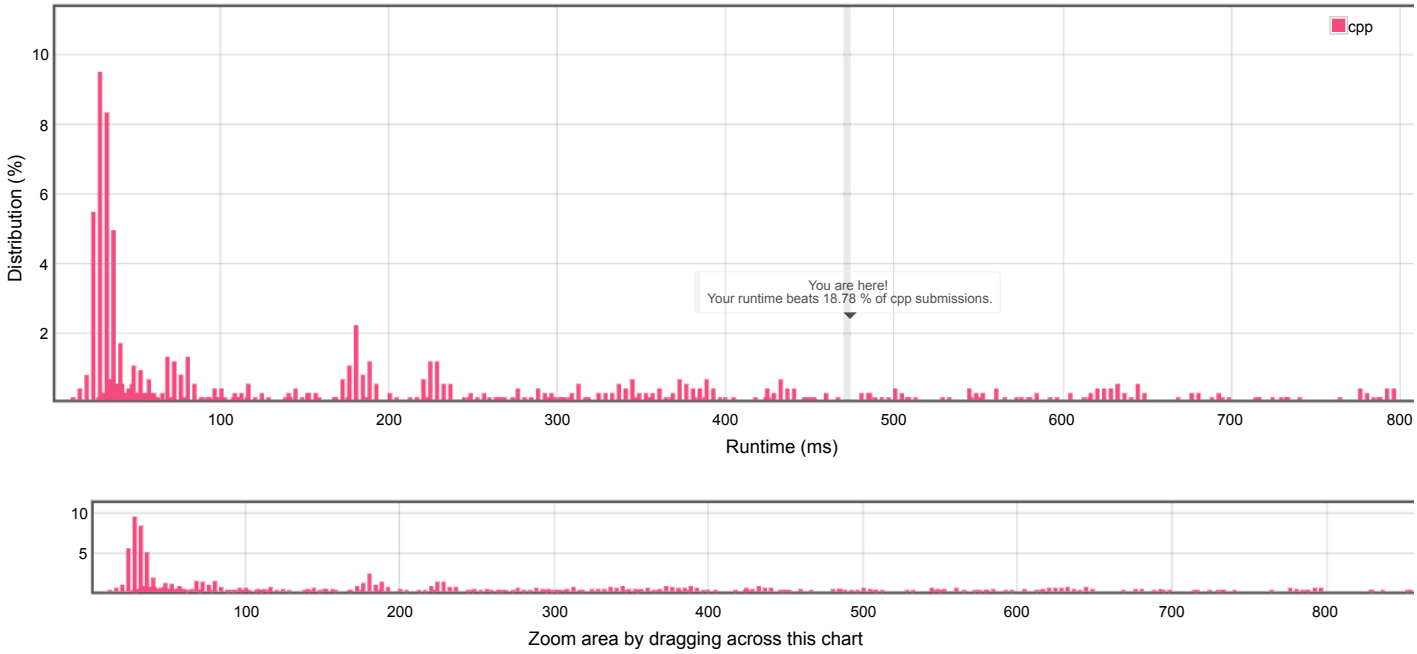
Status: Accepted

Runtime: **472 ms**

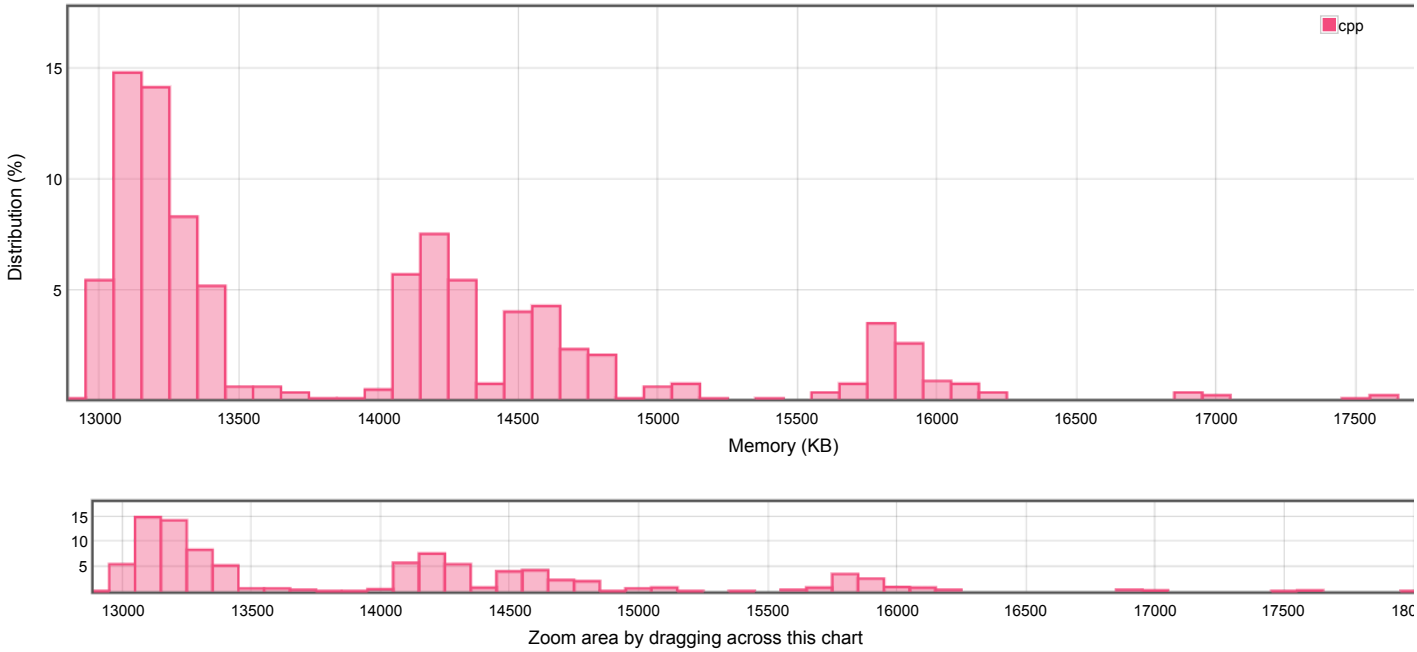
Memory Usage: **19 MB**

Submitted: **7 hours, 27 minutes ago**

Accepted Solutions Runtime Distribution



Accepted Solutions Memory Distribution



Invite friends to challenge **Minimum Falling Path Sum II**

Submitted Code: 7 hours, 27 minutes ago

Language: cpp

Edit Code

```
1  #include <bits/stdc++.h>
2  class Solution {
3      public:
4      int n,m;
```

```
5       int DP[1001][1001];
6       //condicion de parada
7       bool valido(int i,int j)
8       {
9         if(i<0 || i>=n || j<0 || j>=m)
10          return false;
11        return true;
12      }
13      int aux(std::vector<std::vector<int>>&grid,int x,int y)
14      {
15        if(!valido(x,y))
16          return 0;
17        if(DP[x][y]!=-1)
18          return DP[x][y];
19        int res=INT_MAX;
20        int sum=0;
21        for(int i=0;i<m;i++){
22          if(i==y)
23            continue;
24          sum=grid[x][y]+aux(grid,x+1,i);
25          res=fmin(res,sum);
26        }
27        return DP[x][y]=res;
28      }
29
30      int minFallingPathSum(std::vector<std::vector<int>>& grid){
31        memset(DP,-1,sizeof(DP));
32        n=grid.size();
33        m=grid[0].size();
34        if(n==1 && m==1)
35          return grid[0][0];
36        int res=INT_MAX;
37        for(int i=0;i<m;i++){
38          res=fmin(res,aux(grid,0,i));
39        }
40        return res;
41      }
42  };
```

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