LeetCode(/) Explore(/explore/) Problems(/problemset/all/) Interview^New Contest^(/contest/) Discuss(/discuss/) Store ☆ Premium (/subscribe? ref=nb_npl)

Dungeon Game (/problems/dungeon-game/)

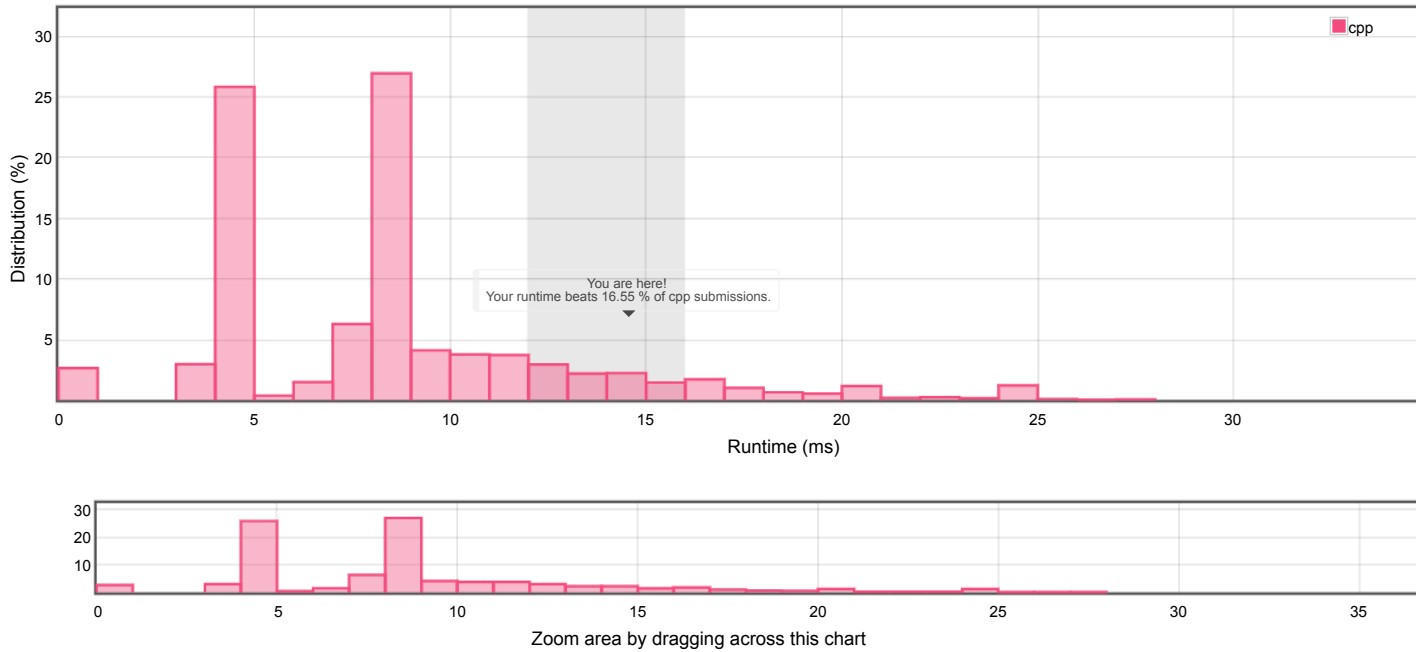# Submission Detail

45 / 45 test cases passed.
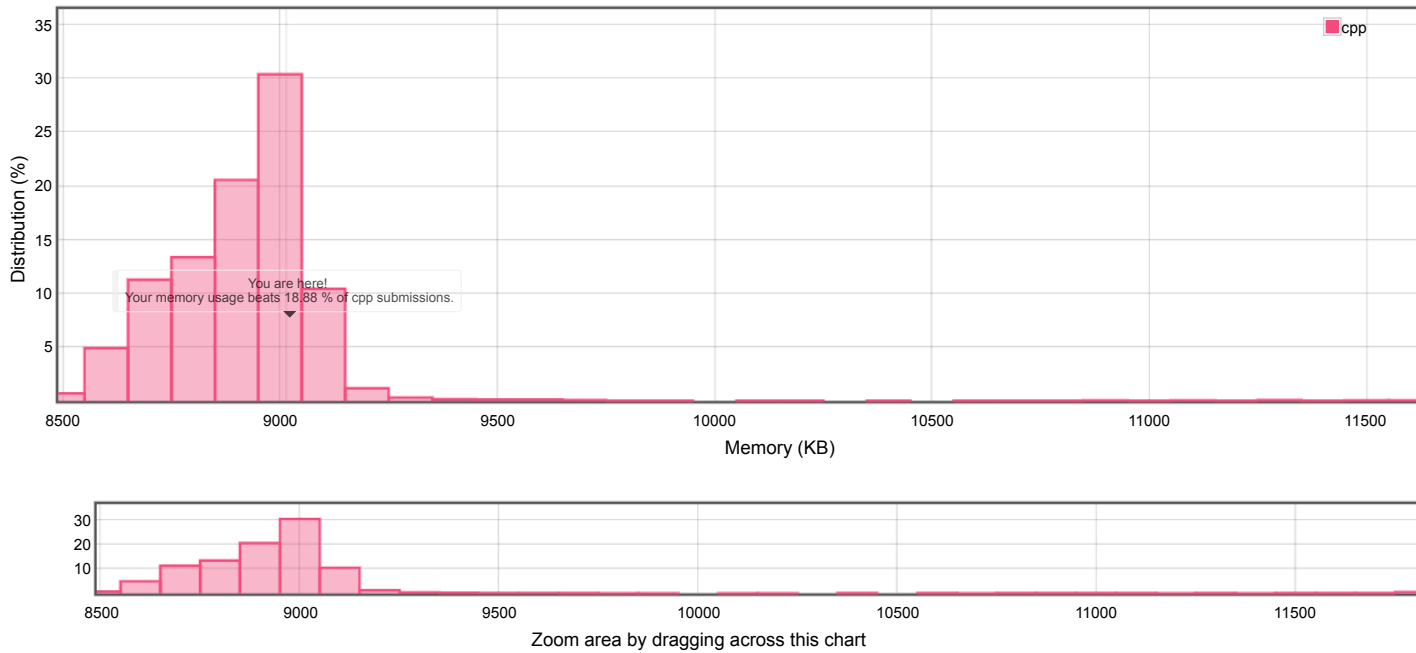
Runtime: **14 ms**
Memory Usage: **9 MB**

Status: Accepted

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution

You are here!
Your runtime beats 16.55 % of cpp submissions.

Zoom area by dragging across this chart

Accepted Solutions Memory Distribution

You are here!
Your memory usage beats 18.88 % of cpp submissions.

Zoom area by dragging across this chart

Invite friends to challenge **Dungeon Game**

Submitted Code: 0 minutes ago

Language: cpp

Edit Code

```
1  class Solution {
2  public:
3      int calculateMinimumHP(std::vector<std::vector<int>>& dungeon) {
4          int m = dungeon.size();
```

```
 5          int n = dungeon[0].size();
 6          std::vector<std::vector<int>> dp (m+1,std::vector<int>(n+1,INT_MAX));
 7          dp[m][n-1] = dp[m-1][n] = 1;
 8          for(int i=m-1;i>=0;--i){
 9              for(int j=n-1;j>=0;--j){
10                  dp[i][j] = fmax(1,fmin(dp[i+1][j],dp[i][j+1])-dungeon[i][j]);
11              }
12          }
13          return dp[0][0];
14
15      }
16  };
```

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