Description

**Golution** 

**Contest** Contest Discuss

□ Discuss (844)

O Submissions

Success Details >

Runtime: 8~ms, faster than 60.29% of C++ online submissions for Dungeon Game.

Memory Usage:  $8.9\,\,MB$ , less than 70.00% of C++ online submissions for Dungeon Game.

Next challenges:

Minimum Path Sum

Cherry Pickup

Show off your acceptance:







Time Submitted	Status	Runtime	Memory	Language
11/29/2021 08:58	Accepted	8 ms	8.9 MB	срр

```
i C++
                                        5 (
                 Autocomplete
      class Solution {
 2
      public:
 3 ▼
          int
      calculateMinimumHP(vector<vector<int>>>
      & dungeon) {
          int m = dungeon.size();
 4
          int n = dungeon[0].size();
 5
          vector<vector<int>>> dp(m,
      vector<int>(n, 0));
          dp[m - 1][n - 1] = max(1, 1 -
 7
      dungeon[m - 1][n - 1]);
          for (int i = n - 2; i >= 0; i--) {
 8 •
            dp[m - 1][i] = max(1, dp[m - 1])
      [i + 1] - dungeon[m - 1][i]);
10
          for (int j = m - 2; j >= 0; j--) {
11 ▼
            dp[j][n - 1] = max(1, dp[j + 1])
12
      [n - 1] - dungeon[j][n - 1]);
13
          for (int i = m - 2; i >= 0; i--) {
14 ▼
            for (int j = n - 2; j >= 0; j--)
15 ▼
              dp[i][j] = max(1, min(dp[i +
16
      1][j], dp[i][j + 1]) - dungeon[i][j]);
17
18
19
          return dp[0][0];
20
      };
21
```