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5411. Cherry Pickup II

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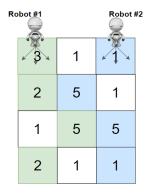
Given a rows x cols matrix grid representing a field of cherries. Each cell in grid represents the number of cherries that you can collect.

You have two robots that can collect cherries for you, Robot #1 is located at the top-left corner (0,0), and Robot #2 is located at the top-right corner (0, cols-1) of the grid.

Return the maximum number of cherries collection using both robots by following the rules below:

- From a cell (i,j), robots can move to cell (i+1, j-1), (i+1, j) or (i+1, j+1).
- When any robot is passing through a cell, It picks it up all cherries, and the cell becomes an empty cell (0).
- When both robots stay on the same cell, only one of them takes the cherries.
- Both robots cannot move outside of the grid at any moment.
- Both robots should reach the bottom row in the grid.

Example 1:



Input: grid = [[3,1,1],[2,5,1],[1,5,5],[2,1,1]]

Output: 24

Explanation: Path of robot #1 and #2 are described in color green and blue respectively.

Cherries taken by Robot #1, (3 + 2 + 5 + 2) = 12. Cherries taken by Robot #2, (1 + 5 + 5 + 1) = 12.

Total of cherries: 12 + 12 = 24.

Example 2:

479

559

499

782

Hard)

Robot #1						Robot #2
1	0	0	0	0	0	1
2	0	0	0	0	3	0
2	0	9	0	0	0	0
0	3	0	5	4	0	0
1	0	2	3	0	0	6

```
Input: grid = [[1,0,0,0,0,0,1],[2,0,0,0,0,3,0],[2,0,9,0,0,0],[0,3,0,5,4,0,0],[1,0,2,3,0,0]

Output: 28

Explanation: Path of robot #1 and #2 are described in color green and blue respectively.

Cherries taken by Robot #1, (1 + 9 + 5 + 2) = 17.

Cherries taken by Robot #2, (1 + 3 + 4 + 3) = 11.

Total of cherries: 17 + 11 = 28.
```

Example 3:

```
Input: grid = [[1,0,0,3],[0,0,0,3],[0,0,3,3],[9,0,3,3]]
Output: 22
```

Example 4:

```
Input: grid = [[1,1],[1,1]]
Output: 4
```

Constraints:

- rows == grid.length
- cols == grid[i].length
- 2 <= rows, cols <= 70
- 0 <= grid[i][j] <= 100

5/30/2020	(9) Cherry Pickup II - LeetCode Contest	
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