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6111. Spiral Matrix IV

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You are given two integers $\, m \,$ and $\, n \,$, which represent the dimensions of a matrix.

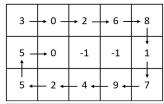
You are also given the head of a linked list of integers.

Generate an m x n matrix that contains the integers in the linked list presented in spiral order (clockwise), starting from the **top-left** of the matrix. If there are remaining empty spaces, fill them with -1.

Return the generated matrix.

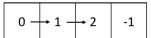
User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:



```
Input: m = 3, n = 5, head = [3,0,2,6,8,1,7,9,4,2,5,5,0]
Output: [[3,0,2,6,8],[5,0,-1,-1,1],[5,2,4,9,7]]
Explanation: The diagram above shows how the values are printed in the matrix.
Note that the remaining spaces in the matrix are filled with -1.
```

Example 2:



Input: m = 1, n = 4, head = [0,1,2]

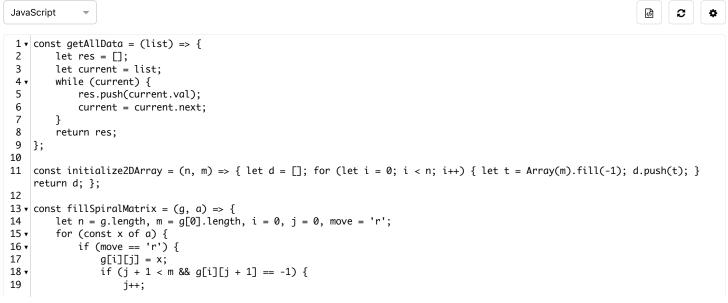
Output: [[0,1,2,-1]]

Explanation: The diagram above shows how the values are printed from left to right in the matrix.

The last space in the matrix is set to -1.

Constraints:

- 1 <= m, n <= 10^5
- $1 \le m * n \le 10^5$
- The number of nodes in the list is in the range [1, m * n].
- 0 <= Node.val <= 1000



```
20 ▼
                 } else {
21
                     move = 'd';
22
                     i++;
23
                 }
24 ▼
            } else if (move == 'l') {
25
                 g[i][j] = x;
                 if (j - 1 \ge 0 \& g[i][j - 1] == -1) {
26 ▼
27
28 ▼
                 } else {
29
                     move = 'u';
30
                     i--;
31
32 ▼
            } else if (move == 'd') {
33
                 g[i][j] = x;
                 if (i + 1 < n \&\& g[i + 1][j] == -1) {
34 ▼
35
                     i++;
36 ▼
                 } else {
                     move = 'l';
37
38
                     j--;
39
40 ▼
            } else if (move == 'u') {
41
                 g[i][j] = x;
                 if (i - 1 >= 0 \&\& g[i - 1][j] == -1) {
42 ▼
43
                     i--;
44 ▼
                 } else {
45
                     move = 'r';
46
                     j++;
47
                 }
48
            }
49
        }
50
   };
51
52 v const spiralMatrix = (n, m, head) ⇒ {
53
        let a = getAllData(head), g = initialize2DArray(n, m);
54
        fillSpiralMatrix(g,a)
55
        return g;
56
    };
```

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