The Celebrity Problem ☐

Medium Accuracy: 38.33% Submissions: 150K+ Points: 4

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A celebrity is a person who is known to all but does not know anyone at a party. If you go to a party of N people, find if there is a celebrity in the party or not.

A square NxN matrix M[][] is used to represent people at the party such that if an element of row i and column j is set to 1 it means ith person knows jth person. Here M[i][i] will always be 0.

Note: Follow 0 based indexing.

Follow Up: Can you optimize it to O(N)

Example 1:

Example 2:

Your Task:

You don't need to read input or print anything. Complete the function **celebrity()** which takes the matrix M and its size N as input parameters and returns the index of the celebrity. If no such celebrity is present, return -1.

Expected Time Complexity: 0 (N^2) **Expected Auxiliary Space:** 0 (1)

Constraints:

 $2 \le N \le 3000$ $0 \le M[][] \le 1$

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