Connceted or Not

Input file: standard input
Output file: standard output
Time limit: 1 second

Given a graph in adjacency list representation of undirected unweighted graph. You are going to find whether any two nodes are connected or not.

Graph is a collection of nodes connected by edges.

Input

The first line of input is an integer **t**:1 ≤ t ≤ 20. the number of testcases. The next t lines of input

- **n, m, q, :** 1 ≤ n, m ≤ 250, 1≤ q ≤1000. the number of nodes, the number of edges and the number of queries separated by space.
- The next n lines of input are n integers either 0 or 1 separated by space. 0 if the ith node and the jth node are not connected, 1 if connected.
- the next q lines of input consists of two integers a, b : 0 ≤ a, b < n. denotes the nodes that you need to check if they are connected or not.

Output

for each testcase output starting with “Case k” k is the case number.

- q lines of output either 0 or 1. 1 when a and b are connected 0 when not.

Example

Sample Input 1	Sample Output 1
2 3 1 3 0 1 0 1 0 0 0 0 0 0 1 1 2 2 0 2 1 2 0 1 1 0 0 1 1 0	Case 1 1 0 0 Case 2 1 1