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✓ Points: 100 (partial)② Time limit: 1.0s

■ Memory limit: 256M

→ Allowed languages

C, C++

A new disease is widespread in IIITH. A student named *Roma* drew a graph of N students in IIITH. An edge between node A and Node B represents that A is a friend of B. (Assume **graph is undirected**)

The disease will spread from a node P to node Q if P and Q are connected (There is a path from node P to node Q).

Now he has got q queries. In each query, given nodes X and Y, if X is infected by the disease will node Y also be infected. Note that all queries are independent of each other.

Constraints

 $n \le 100$

 $q \le 100$

Input

First line contains n, q.

Next n lines contains the adjacency matrix, with each line having n elements either 1 or 0. 1 represents edge, 0 represents no edge.

Next q lines contains 2 integers, node which has disease and target node. Assume nodes are 0 indexed. (They are labelled as 0,1,...,n-1)

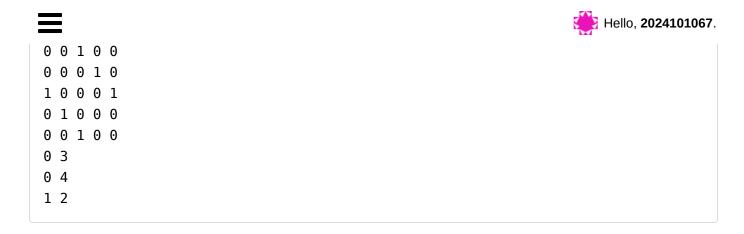
Output

Output consists of q lines, the answer for q queries. Print 1 if target node gets infected, Print 0 if target node does not get infected.

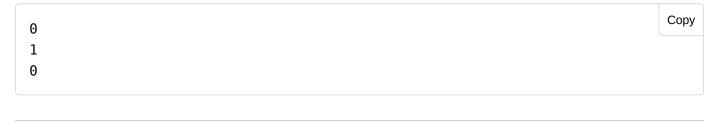
Sample Test Case

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Output



Clarifications

Request clarification

No clarifications have been made at this time.

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