Food Stalls

Robin goes to a food festival along with N-1 friends. Robin is labeled as 1 and his friends are labeled from 2 to N. Each of them has a set of colored coupons. The food festival has M food stalls numbered from 1 to M. Every food stall accepts particular color coupons only.

There are 10 different color coupons represented by numbers ranging from 1 to 10. You are given certain number of queries Q. Find the sum of the outputs of all the queries.

Input Specification:

input1: N, total size of the group of friends including Robin
input2: M, number of stalls
input3: A two dimensional array of size M * 10, where cell(i, j) = 1 denotes that stall i accepts coupon j

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input2: M, number of stalls

input3: A two dimensional array of size M * 10, where *cell(i, j)* = 1 denotes that stall i accepts coupon j

input4: A two dimensional array of size N * 10, where *cell(i, j)* = 1 denotes that person i has coupon j

input5: Q, number of queries

input6: A two dimensional array of size Q * 2, containing sets for which the query has to be answered. For each row *[i, j]*, if person i can eat at stall j, then output of the query is 1 else output is 0

Output Specification:

Your function should return the sum of the output of all the queries.

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Example 1:

input1: 1

input2: 1

input3: {{1, 0, 0, 0, 0, 0, 0, 0, 0, 0}}

input4: {{1, 0, 0, 1, 0, 0, 0, 0, 0, 0}}

input5: 1

input6: {{1, 1}}

Output: 1

Explanation:

input4: {{1, 0, 0, 1, 0, 0, 0, 0, 0, 0}}

input5: 1

input6: {{1, 1}}

Output: 1

Explanation:

- Person 1 has coupons 1 and 4, and stall 1 accepts coupon 1.

  So, the output of whether person 1 can eat at stall 1 is 1.

Example 2:

input1: 1

input2: 2

input3: {{1, 0, 0, 1, 0, 0, 0, 0, 0, 0}, {0, 0, 0, 0, 0, 0, 0, 0, 0, 1}}

So, the output of whether person 1 can eat at stall 1 is 1.

Example 2:

input1: 1

input2: 2

input3: {{1, 0, 0, 1, 0, 0, 0, 0, 0, 0}, {0, 0, 0, 0, 0, 0, 0, 0, 0, 1}}

input4: {{1, 0, 0, 0, 0, 0, 0, 0, 0, 0}}

input5: 2

input6: {{1, 1}, {1, 2}}

Output: 1

Explanation:

- Person 1 has coupon 1, and stall 1 accepts coupon 1 and 4

How to Attempt?

Minimum Height

If the in-order and level order traversal of a tree are given, what is the minimum height of the tree?

Input Specification:

input1: The inorder traversal of the tree
input2: The level order traversal of the tree
input3: N, number of nodes in the tree

Output Specification:

input1: The inorder traversal of the tree

input2: The level order traversal of the tree

input3: N, number of nodes in the tree

Output Specification:

Return the minimum depth of the tree

Example 1:

input1: {2,1,3}

input2: {1,2,3}

input3: 3

Output: 2