



(/en/),
v1.1.0

CSD Testing System

(/en/)

Decision tree

Cost: 30 | Solved: 18

Memory limit: 256 MBs

Time limit: 1 s

Input: input.txt

Output: output.txt

Task:

You are given k queries and a decision table.

You have to output a solution for each of the k queries, based on the decision table data.

Use the decision tree building algorithm when solving the task.

Input:

The first line contains three integers: n – the number of criteria of the decision table, m – the number of rows in the decision table, k – the number of queries.

The next m lines contain the decision table itself. The first n columns of it contain criteria each separated with a comma, the $n+1$ th one contains a result – the final decision based on the given data.

The next k lines contain criteria for new queries (also separated with commas).

Output:

Decisions for the queries, each separated with a line feed.

Example:

Input	Output
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4 8 2	
higher,home,visitation,1,no	
higher,home,visitation,0,yes	
higher,home,pass,0,no	
below,home,pass,0,yes	
below,visit,pass,0,no	no
below,home,pass,1,yes	yes
higher,visit,visitation,1,no	
below,visit,visitation,0,yes	
higher,visit,visitation,1	
below,home,pass,0	