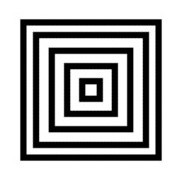
**GTI 615**

The Reality Stone is one of the six Infinity Stones. It is known to be able to convert matter into dark matter, and otherwise maintains an almost lifelike existence that causes it to bond in a parasitic fashion to a living host. Once bonded, the energies of the reality stone slowly consume any mortal host, and also have a volatile and deadly effect. The search of reality stone is in the form of matrix where it's in the form as defined by layers in the diagram below



Thus on the given k\*th\* layer find all the letters you need and increment it by p places. Thus on the above opertaions you would get collection of symbols and letter and alphabet in the collection find only the alphabets will give you the clue.



**Input Format**

First line contains the matrix row (m) and column (n)

Second line consist of the layer to extract (k)

Next n lines consist of the matrix values

Finally the p value to succeding letter from layer k

**Constraints**

No Constraints

**Output Format**

String

**Sample Input 0**

4 4

2

a b c d

l c p e

k f g f

j i h g

5

**Sample Output 0**

hulk

**Explanation 0**

From the above matrix we have to take the second layer

c p e g

Thus on traversing we get c+5=h, p+5=u, g+5=l, e+5=k

hulk