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Given a dictionary, a method to do lookup in dictionary and a M x N board where every cell has one character. Find all possible words that can be formed by a sequence of adjacent characters. Note that we can move to any of 8 adjacent characters, but a word should not have multiple instances of same cell.

Example:

```
Input: dictionary[] = {"GEEKS", "FOR", "QUIZ", "GO
"}:
       boggle[][]
                    = {{'G','I','Z'},
                        {'U','E','K'},
                       {'Q','S','E'}};
```

Output: Following words of dictionary are present GEEKS, QUIZ

Input:

The first line of input contains an integer T denoting the no of test cases. Then T test cases follow. Each test case contains an integer x denoting the no of words in the dictionary. Then in the next line are x space separated strings denoting the contents of the dictinory. In the next line are two integers N and M denoting the size of the boggle. The last line of each test case contains NxM space separated values of the boggle.

Output:



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For each test case in a new line print the space separated sorted distinct words of the dictionary which could be formed from the boggle. If no word can be formed print -1.

Constraints:

1<=T<=10 1<=x<=10 1<=n,m<=7

Example:

Input:

1 4

GEEKS FOR QUIZ GO

33

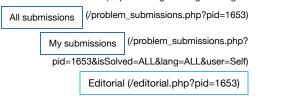
GIZUEKQSE

Output:

GEEKS QUIZ

** For More Input/Output Examples Use 'Expected Output' option **

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```
#include <stdio.h>

int main() {
    //code
    return 0;
}

Test against custom input

Submit Compile & Test Expected Outcome
```

Need help with your code? Please use ide.geeksforgeeks.org (https://ide.geeksforgeeks.org), generate link and share the link here.



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