## **Word Boggle | Practice | GeeksforGeeks**

Given a dictionary, a method to do lookup in dictionary and a  $M \times N$  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:**

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:**

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:**

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

# Example: Input:

1 4 GEEKS FOR QUIZ GO 3 3 G I Z U E K Q S E

### **Output:**

**GEEKS QUIZ** 

\*\* For More Input/Output Examples Use <u>'Expected Output'</u> option \*\*

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