

Practice



My Profile (<https://auth.geeksforgeeks.org/user/>)

Word Boggle

Submissions: 17996
 (/problem_submissions.php?pid=1653)
 Accuracy: 17.28% Difficulty: **Medium**
 (<https://practice.geeksforgeeks.org/Medium/0/0/>)

(/topics/Backtracking/) Show Topic Tags
 (/topics/BFS/) (/topics/DFS/) (/topics/Graph/)
 (/topics/Trie/)

Amazon
 (/company/Amazon/)
 Directi
 (/company/Directi/)
 Facebook
 (/company/Facebook/)
 Google
 (/company/Google/)
 MakeMyTrip
 (/company/MakeMyTrip/)
 Microsoft
 (/company/Microsoft/)
 Nvidia
 (/company/Nvidia/)
 Yahoo
 (/company/Yahoo/)

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:

Popular Company

Tags

— Amazon

(/company/Amazon/)

— Microsoft

(/company/Microsoft/)

— Oracle

(/company/Oracle/)

— Samsung

(/company/Samsung/)

— Adobe

(/company/Adobe/)

— Synopsys

(/company/Synopsys/)

— Infosys

(/company/Infosys/)

— Cisco

(/company/Cisco/)

— Wipro

(/company/Wipro/)

— Ola-Cabs

(/company/Ola-Cabs/)

— Morgan-Stanley

(/company/Morgan-Stanley/)

— Goldman-Sachs

(/company/Goldman-Sachs/)

show more

(/company-tags/)

Popular Topic Tags

— Maths

(/topics/maths/)

— Array

(/topics/array/)

— Dynamic-

Programming

(/topics/Dynamic-Programming/)

— Greedy-Algorithm

(/topics/Greedy-Algorithm/)

The Executive Wallet

LIVE BATCHES

Your business cards
in a slim leather case

SHOP NOW



Leaderboard (Overall) ▶▶ (/ranking.php)

Weekly Monthly Overall

Ibrahim Nash (<https://auth.geeksforgeekNash/practice/>)

xiaowang
 (<https://auth.geeksforgeeks.org/user/xi>)

Rishav Raj 4 (<https://auth.geeksforgeeks.4/practice/>)

— Hashing

(/topics/hashing/)

— Tree (/topics/tree/)

— Bit-Algorithm

(/topics/bit-
algorithm/)

— Matrix

(/topics/matrix/)

— Backtracking

(/topics/backtracking/)

— Operating System

(/topics/Operating
Systems/)

— Linked-List

(/topics/Linked-
List/)

— Graph

(/topics/Graph/)

show more (/topic-
tags)

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:

$1 \leq T \leq 10$

$1 \leq x \leq 10$

$1 \leq n, m \leq 7$

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 'Expected Output' option ****

Author: Shubham Joshi 1 ([https://auth.geeksforgeeks.org/user/Shubham Joshi 1/practice/](https://auth.geeksforgeeks.org/user/Shubham%20Joshi%201/practice/))

[All submissions](#) (/problem_submissions.php?pid=1653)

[My submissions](#) (/problem_submissions.php?

pid=1653&isSolved=ALL&lang=ALL&user=Self)

[Editorial](#) (/editorial.php?pid=1653)

Anurag_Singh

(https://auth.geeksforgeeks.org/user/Anurag_Singh/)

NavdeepChahal

(<https://auth.geeksforgeeks.org/user/NavdeepChahal/>)

AbrahamKim

(<https://auth.geeksforgeeks.org/user/AbrahamKim/>)

Monokai

C (gcc 5.4)



(<https://auth.geeksforgeeks.org/edit-profile.php>)

[Recent Comments \(/recentComments/\)](#)

```

1 #include <stdio.h>
2
3 int main() {
4     //code
5     return 0;
6 }

```

☐ 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.

GeeksforGeeks

A computer science portal for geeks

(<https://www.geeksforgeeks.org/>)

710-B, Advant Navis Business Park,
Sector-142, Noida, Uttar Pradesh - 201305
feedback@geeksforgeeks.org

COMPANY

About Us

(<https://www.geeksforgeeks.org/about/>)

Careers

(<https://www.geeksforgeeks.org/careers/>)

Privacy Policy

(<https://www.geeksforgeeks.org/privacy-policy/>)

Contact Us

(<https://www.geeksforgeeks.org/about/contact-us/>)

LEARN

Algorithms

(<https://www.geeksforgeeks.org/algorithm/>)

of-algorithms/

Data Structures

(<https://www.geeksforgeeks.org/data-structures/>)

of-algorithms/

Languages

(<https://www.geeksforgeeks.org/language/>)

of-algorithms/contact-

CS Subjects

(<https://www.geeksforgeeks.org/on-computer-science-subjects-gg/>)

on-computer-science-

subjects-gg/

Video Tutorials

(<https://www.youtube.com/geeksforgeeksvideos/>)

PRACTICE

Company-wise

(<https://practice.geeksforgeeks.org/company-wise/>)

tags/

Topic-wise

(<https://practice.geeksforgeeks.org/topic-wise/>)

tags/

Contests

(<https://practice.geeksforgeeks.org/contests/>)

Subjective Questions

(<https://practice.geeksforgeeks.org/subjective-questions/>)

How to begin?

(<https://practice.geeksforgeeks.org/faq.php>)

CONTRIBUTE

Write an Article

(<https://www.geeksforgeeks.org/write-an-article/>)

Interview Experience

(<https://www.geeksforgeeks.org/interview-experience/>)

Internships

(<https://www.geeksforgeeks.org/internships/>)

Contests

(<https://www.geeksforgeeks.org/contests/>)

Subjective Questions

(<https://www.geeksforgeeks.org/subjective-questions/>)

How to begin?

(<https://practice.geeksforgeeks.org/faq.php>)

(<https://www.facebook.com/geeksforgeeks.org/>)

(<https://in.linkedin.com/company/geeksforgeeks>)

(<https://play.google.com/store/apps/details?id=free.programming.programming&hl=en>)

([@geeksforgeeks](https://twitter.com/geeksforgeeks))

(<https://www.youtube.com/geeksforgeeksvideos/>)

(<https://www.youtube.com/geeksforgeeksvideos/>)

@geeksforgeeks, Some rights reserved (<https://creativecommons.org/licenses/by-sa/4.0/>)