

# Topological sort → Alphabet

Hard 2 minutes

10 users solved this problem. Latest completion was 3 days ago.

Code Challenge — Write a program

There is a made-up language. Determine the alphabetic order of its letters using lexicographically ordered words from the language. It is guaranteed that such order exists and is unambiguous.

**Input:** number  $n$  in the first line is the number of words from the language, ordered lexicographically. Next  $n$  lines contain those words. The length of each word is no greater than 20 characters.

**Output:** print the alphabet of the language without spaces. There's only one correct output.

Sample Input 1:

```
5
bac
db
dbc
dba
caab
```

Sample Output 1:

```
bdca
```

Code Editor   IDE

- ✓ IDE is responding   IntelliJ IDEA 2019.3.3
- ✓ EduTools plugin is responding   3.5-2019.3-4422

Solve in IDE

**Wrong, but keep on trying and never give up!** Tough problem! You can postpone it now and return to it later with a fresh perspective. You'll get another problem now and will still be able to complete the topic. Install an IDE to get access to powerful debugging tools which let you examine your solution step by step. **1 code style error**

Failed test #3 of 5. Wrong answer

What is a test and why don't we always show it?

[Download the failed test #3 again](#)   One test is free once a day, more tests for hypercoins.  
The failed test has been downloaded.

Code snippets from theory

Postpone problem

Time limit: 8 seconds   Memory limit: 256 MB

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Code snippets from theory