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kenkthejesh ▾

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Word Formation

Problem

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You are given N different words and a target string(also a word). All words are in lowercase. You have to form the given target string by taking individual letters from the collection of words and rearranging them. You can use each word more than once if you want, and you have N number of words. Find the minimum number of words that you need to form the target string? If it is impossible, return -1.

Input:

Collection of words and the target string

Output:

Count of minimum number of words needed to form target string
Print -1 if formation of target word is not possible

Input Format

First line of input contains an array of words Second line contains the target string

Constraints

1. All words must be lowercase and no use of special characters.
2. Maximum length of word and target string ranges in [1,15]

Output Format

Output is a positive number indicating the minimum number of words needed to form a target string. If not possible, output is -1 indicating target string cannot be formed.

Sample Input 0:

```
nie ieee student branch
nisb
```

Sample Output 0:

3

Explanation:

We need 1 "nie", 1 "student" and 1 "branch" to rearrange and form the target string "nisb". "ni" from "nie", "s" from "student" and "b" from "branch". Therefore, minimum words are 3.

Sample Input 1:

```
gray black
grub
```

Sample Output 1:

```
-1
```

Explanation:

We cannot form target string from given collection of words.

Sample Input 0

```
gray black
grub
```

Sample Output 0

```
-1
```





Contest ends in 17 hours

Submissions: [6](#)

Max Score: 100

Difficulty: Hard

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```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args)
7     {
8         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be
           named Solution. */
9
10        Scanner sc = new Scanner(System.in);
11        String str = sc.nextLine();
12        String check = sc.nextLine();
13
14        String[] abc = str.split(" ");
15
16        for (String a : abc)
17            System.out.println(a);
18    }
19 }
```

Line: 1 Col: 1

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Test against custom input

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