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State Finished

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**Time taken** 3 days 3 hours **Marks** 10.00/10.00

**Grade 100.00** out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

 $Find if a \ String 2 \ is \ substring \ of \ String 1. \ If \ it \ is, \ return \ the \ index \ of \ the \ first \ occurrence. \ else \ return \ -1.$ 

## Sample Input 1

thistest123string

123

## Sample Output 1

g

Answer: (penalty regime: 0 %)

```
1  a=input()
2  b=input()
3  index=a.find(b)
4  if index!=-1:
5     print(index)
6  else:
7     print(-1)
```

Input Expected Got

thistest123string 8 8 ✓

123

Passed all tests! ✓

Correct

Question  ${\bf 2}$ 

Correct

Mark 1.00 out of 1.00

Given a string S which is of the format USERNAME@DOMAIN.EXTENSION, the program must print the EXTENSION, DOMAIN, USERNAME in the reverse order.

### **Input Format:**

The first line contains S.

#### **Output Format:**

The first line contains EXTENSION. The second line contains DOMAIN. The third line contains USERNAME.

## **Boundary Condition:**

1 <= Length of S <= 100

### **Example Input/Output 1:**

Input:

abcd@gmail.com

Output:

com

gmail

abcd

### For example:

Input	Result
arvijayakumar@rajalakshmi.edu.in	edu.in
	rajalakshmi
	arvijayakumar

## Answer: (penalty regime: 0 %)

	Input	Expected	Got	
*	abcd@gmail.com	com gmail abcd	com gmail abcd	<b>~</b>
~	arvijayakumar@rajalakshmi.edu.in	edu.in rajalakshmi arvijayakumar	edu.in rajalakshmi arvijayakumar	~

Passed all tests! 🗸

Correct

```
Question 3

Correct

Mark 1.00 out of 1.00
```

Given a string, determine if it is a palindrome, considering only alphanumeric characters and ignoring cases.

**Note:** For the purpose of this problem, we define empty string as valid palindrome.

### Example 1:

```
Input:
A man, a plan, a canal: Panama
Output:
1
```

#### Example 2:

```
Input:
race a car
Output:
0
```

#### **Constraints:**

• s consists only of printable ASCII characters.

### Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	A man, a plan, a canal: Panama	1	1	~
~	race a car	0	0	~

#### Passed all tests! 🗸

Correct

```
Question 4
Correct
Mark 1.00 out of 1.00
```

The program must accept **N** series of keystrokes as string values as the input. The character ^ represents undo action to clear the last entered keystroke. The program must print the string typed after applying the undo operations as the output. If there are no characters in the string then print -1 as the output.

### **Boundary Condition(s):**

```
1 <= N <= 100
1 <= Length of each string <= 100
```

#### **Input Format:**

The first line contains the integer N.
The next N lines contain a string on each line.

### **Output Format:**

The first N lines contain the string after applying the undo operations.

### **Example Input/Output 1:**

Input:

3 Hey ^ goooo^^glee^ lucke^y ^charr^ms ora^^nge^^^^

Output:

Hey google luckycharms

Answer: (penalty regime: 0 %)

```
1 s=input()
 2 v for _ in range(int(s)):
 3
       n=input().strip()
       result=[]
 4
 5 ▼
       for char in n:
        if char == '^':
6 ₹
 7 🔻
               if result:
 8
                   result.pop()
 9 ₹
10
               result.append(char)
        a=''.join(result).strip()
11
12 ▼
       if a:
13
           print(a)
14 🔻
       else:
15
           print(-1)
```

	Input	Expected	Got	
<b>~</b>	Hey ^ goooo^^glee^ lucke^y ^charr^ms ora^^nge^^^^	Hey google luckycharms -1	Hey google luckycharms -1	<b>~</b>

# Passed all tests! 🗸

Correct

Question <b>5</b>		
Correct		
Mark 1.00 out of 1.00		

Write a Python program to get one string and reverses a string. The input string is given as an array of characters char[].

You may assume all the characters consist of printable ascii characters.

## Example 1:

```
Input:
hello
Output:
olleh
```

### Example 2:

```
Input:
Hannah
Output:
hannaH
```

# Answer: (penalty regime: 0 %)

```
1 | a=str(input())
2 | print(a[::-1])
```

	Input	Expected	Got	
~	hello	olleh	olleh	~
~	Hannah	hannaH	hannaH	~

Passed all tests! ✓

Correct

Question  ${\bf 6}$ 

Correct

Mark 1.00 out of 1.00

Given a string s containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid.

An input string is valid if:

Open brackets must be closed by the same type of brackets.

Open brackets must be closed in the correct order.

Constraints:

1 <= s.length <= 10^4

s consists of parentheses only '()[]{}'.

#### For example:

Test	Result
<pre>print(ValidParenthesis("()"))</pre>	true
<pre>print(ValidParenthesis("()[]{}"))</pre>	true
<pre>print(ValidParenthesis("(]"))</pre>	false

Answer: (penalty regime: 0 %)

### Reset answer

```
1 v def ValidParenthesis(s):
       stack=[]
a={')':'(','}':'{',']':'['}
 2
 3
 4 ▼
        for char in s:
5 ▼
          if char in a.values():
 6
                stack.append(char)
            elif char in a:
 7 🔻
                if not stack or stack.pop()!=a[char]:
                    return "false"
 9
10 🔻
            else:
                    return "false"
11
        return "true" if len(stack)==0 else "false"
```

	Test	Expected	Got	
~	<pre>print(ValidParenthesis("()"))</pre>	true	true	~
~	<pre>print(ValidParenthesis("()[]{}"))</pre>	true	true	~
~	<pre>print(ValidParenthesis("(]"))</pre>	false	false	~

Passed all tests! ✓

Correct

Question  ${\bf 7}$ 

Correct

Mark 1.00 out of 1.00

A pangram is a sentence where every letter of the English alphabet appears at least once.

Given a string sentence containing only lowercase English letters, return true if sentence is a pangram, or false otherwise.

Example 1:

Input:

the quick brown fox jumps over the lazy dog

Output:

true

Explanation: sentence contains at least one of every letter of the English alphabet.

Example 2:

Input:

arvijayakumar

Output: false

Constraints:

1 <= sentence.length <= 1000

sentence consists of lowercase English letters.

#### For example:

Test	Result
<pre>print(checkPangram('thequickbrownfoxjumpsoverthelazydog'))</pre>	true
<pre>print(checkPangram('arvijayakumar'))</pre>	false

Answer: (penalty regime: 0 %)

### Reset answer

	Test	Expected	Got	
<b>~</b>	<pre>print(checkPangram('thequickbrownfoxjumpsoverthelazydog'))</pre>	true	true	~

	Test	Expected	Got	
<b>~</b>	<pre>print(checkPangram('arvijayakumar'))</pre>	false	false	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **8** 

Correct

Mark 1.00 out of 1.00

Assume that the given string has enough memory.

Don't use any extra space(IN-PLACE)

## Sample Input 1

a2b4c6

## Sample Output 1

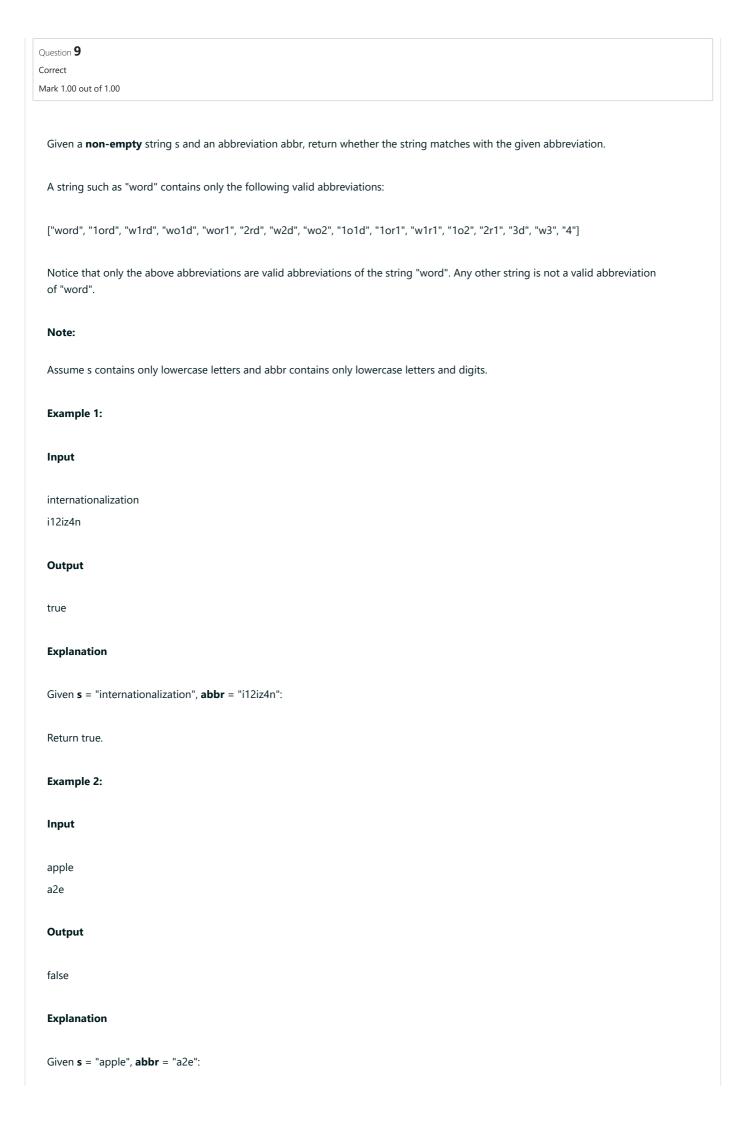
aabbbbcccccc

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	a2b4c6	aabbbbccccc	aabbbbccccc	~
~	a12b3d4	aaaaaaaaaabbbdddd	aaaaaaaaaabbbdddd	~

Passed all tests! ✓

Correct



Return false.

## Answer: (penalty regime: 0 %)

```
1 v def valid(word,abbr):
        i=0
        j=0
3
 4
        n=len(word)
        m=len(abbr)
 5
        while i<n and j<m:
 6 ▼
 7 🔻
            if abbr[j].isdigit():
                if abbr[j]=='0':
    return "false"
 8 🔻
 9
10
                while j<m and abbr[j].isdigit():</pre>
11 🔻
12
                    num=num*10+int(abbr[j])
13
                     j+=1
                i+=num
14
15 ▼
            else:
                if i>=n or word[i]!=abbr[j]:
16 🔻
17
                   return "false"
                i+=1
18
19
                 j+=1
        return "true" if i==n and j==m else "false"
20
21 word=input()
22 abbr=input()
23 print(valid(word,abbr))
```

	Input	Expected	Got	
<b>~</b>	internationalization i12iz4n	true	true	<b>~</b>
<b>~</b>	apple a2e	false	false	~

Passed all tests! ✓

Correct

Question 10

Correct

Mark 1.00 out of 1.00

Consider the below words as key words and check the given input is key word or not.

keywords: {break, case, continue, default, defer, else, for, func, goto, if, map, range, return, struct, type, var}

Input format:

Take string as an input from stdin.

Output format:

Print the word is key word or not.

Example Input:

break

Output:

break is a keyword

Example Input:

IF

Output:

IF is not a keyword

#### For example:

Input	Result		
break	break is a keyword		
IF	IF is not a keyword		

### Answer: (penalty regime: 0 %)

```
Input Expected Got

✓ break break is a keyword break is a keyword ✓

IF IF is not a keyword IF is not a keyword ✓
```

Passed all tests! 🗸