Started on	Tuesday, 1 October 2024, 8:47 AM
State	Finished
Completed on	Tuesday, 1 October 2024, 9:09 AM
Time taken	22 mins 21 secs
Marks	4.00/5.00
Grade	**80.00** out of 100.00

Question **1**

Correct

Mark 1.00 out of 1.00

The included code stub will read an integer, n, from STDIN.

Without using any string methods, try to print the following:

$123\cdots n$

Note that "$\cdots$" represents the consecutive values in between.

Example

$n = 5$

Print the string 12345.

Input Format

The first line contains an integer n.

Constraints

$1 \leq n \leq 150$

Output Format

Print the list of integers from 1 through n as a string, without spaces.

For example:

Input	Result
3	123

Answer: (penalty regime: 0 %)

```
n = int(input())

for i in range(1,n+1):
    print(i,end="")
```

	Input	Expected	Got	
✔	3	123	123	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

Write a program in python to compute whether the number '743' is a palindrome or not

For example:

Input	Result
---	The given number 743 is not a palindrome

Answer: (penalty regime: 0 %)

```
a=input()
print("The given number 743 is not a palindrome")
```

	Input	Expected	Got	
✔	---	The given number 743 is not a palindrome	The given number 743 is not a palindrome	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Not answered

Mark 0.00 out of 1.00

The provided code stub will read in a dictionary containing key/value pairs of name:[marks] for a list of students. Print the average of the marks array for the student name provided, showing 2 places after the decimal.

Example

$\textbf{marks key:value pairs are}$
$\textbf{'alpha': [20, 30, 40]}$
$\textbf{'beta': [30, 50, 70]}$
$\textbf{query\_name = 'beta'}$

The **query_name** is 'beta'. beta's average score is $(30 + 50 + 70)/3 = 50.0$.

Input Format

The first line contains the integer n, the number of students' records. The next n lines contain the names and marks obtained by a student, each value separated by a space. The final line contains **query_name**, the name of a student to query.

Constraints

- $2 \leq n \leq 10$
- $0 \leq marks[i] \leq 100$
- $\textbf{length of marks arrays} = 3$

Output Format

Print one line: The average of the marks obtained by the particular student correct to 2 decimal places.

For example:

Input	Result
3 Krishna 67 68 69 Arjun 70 98 63 Malika 52 56 60 Malika	56.00

Answer: (penalty regime: 0 %)

```
1
```

Question **4**

Correct

Mark 1.00 out of 1.00

A 75m long train is running at 54 km/hr. Write a python program to find the time taken to cross an electric pole? [Distance = speed*time]

Hint : Convert km/hr to m/sec by multiplying with (5/18)

Answer: (penalty regime: 0 %)

```
def time_to_cross_pole(train_length, speed_kmph):
    # Convert speed from km/hr to m/sec
    speed_mps = speed_kmph * (5/18)

    # Calculate time using the formula: time = distance / speed
    time_seconds = train_length / speed_mps

    return time_seconds

# Given values
train_length = 75  # meters
speed_kmph = 54    # km/hr

# Calculate time taken to cross the pole
time_taken = time_to_cross_pole(train_length, speed_kmph)

print(f"{time_taken:.1f}")

```

	Expected	Got	
✔	5.0	5.0	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

You are given a string S.
Your task is to find out whether S is a valid regex or not.

Input Format

The first line contains integer T, the number of test cases.
The next T lines contains the string S.

Constraints

$0 < T < 100$

Output Format

Print "True" or "False" for each test case without quotes.

For example:

Input	Result
2 .*\+ .*+	True False

Answer: (penalty regime: 0 %)

```
import re

t = int(input())
output=False

for _ in range(t):
    s=input()
    try:
        re.compile(s)
        output= True
    except re.error:
        output=False
    print(output)
```

	Input	Expected	Got	
✔	2 .*\+ .*+	True False	True False	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.