Started on Monday, 28 October 2024, 2:25 PM

State Finished

Completed on Monday, 28 October 2024, 2:47 PM

Time taken 21 mins 31 secs

Marks 4.00/5.00

Grade 80.00 out of 100.00

Question 1

Correct

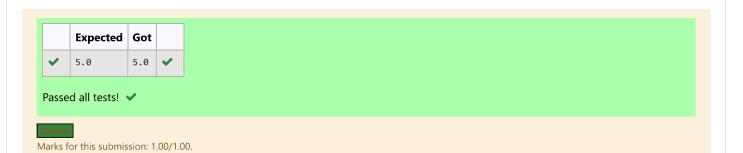
Mark 1.00 out of 1.00

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 %)

- 1 distance=75
- 2 speed=15
- 3 time=distance/speed
- 4 print(time)



Question **2**Correct

Mark 1.00 out of 1.00

Consider a empty list . You can perform the following commands:

- 1. Insert integer e at position i.
- 2. Print the list.
- 3. Delete the first occurrence of integer *e*.
- 4. Insert integer **e** at the end of the list.
- 5. Sort the list.
- 6. Pop the last element from the list.
- 7. Reverse the list.

Initialize your list and read in the value of n followed by n lines of commands where each command will be of the n types listed above. Iterate through each command in order and perform the corresponding operation on your list.

Example

N = 4

append 1

append 2

insert 3 1

print

- append 1: Append 1 to the list, arr = [1].
- append 2: Append 2 to the list, arr = [1, 2].
- insert 3 1: Insert 3 at index 1, arr = [1, 3, 2].
- **print**: Print the array.

Output:

[1, 3, 2]

Input Format

The first line contains an integer, n, denoting the number of commands.

Each line i of the n subsequent lines contains one of the commands described above.

Constraints

• The elements added to the list must be *integers*.

Output Format

For each command of type print, print the list on a new line.

For example:

Input	Result
12	[6, 5, 10]
insert 0 5	[1, 5, 9, 10]
insert 1 10	[9, 5, 1]
insert 0 6	
print	
remove 6	
append 9	
append 1	
sort	
print	
рор	
reverse	
print	

```
Answer: (penalty regime: 0 %)
      N=int(input())
   2
      1=[]
   3 🔻
      for i in range(N):
          s=input().split()
   4
   5
          if s[0]=='insert':
   6
               1.insert(int(s[1]),int(s[2]))
   7
          elif s[0]=='remove':
               1.remove(int(s[1]))
   8
          elif s[0]=='append':
   9
               1.append(int(s[1]))
  10
          elif s[0]=='pop':
  11
  12
               1.pop()
          elif s[0]=='sort':
  13
               1.sort()
  14
          elif s[0]=='reverse':
  15
  16
              1.reverse()
          elif s[0]=='print':
  17
  18
              print(1)
```

	Input	Expected	Got	
~	insert 0 5 insert 1 10 insert 0 6 print remove 6 append 9 append 1 sort print pop reverse print	. , , ,	[6, 5, 10] [1, 5, 9, 10] [9, 5, 1]	~

Passed all tests! 🗸

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of 1.00

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

Without using any build-in methods, try to print the numbers in reverse order

Example

n= 1234

Print the string 4321

Input Format

The first line contains an integer n.

Constraints

 $1 \le n \le 150$

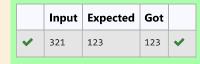
Output Format

Print the list of integers from ${\bf 1}$ through ${\bf n}$ as a string, without spaces.

For example:

Input	Result
321	123

Answer: (penalty regime: 0 %)



Passed all tests! ✓



Marks for this submission: 1.00/1.00.

Question 4

Not answered

Mark 0.00 out of 1.00

Write a Python program to Get the employee and doctor details & display it using Hierarchical inheritance.

Note: create a parent (base) class name **Details** and two child (derived) classes named **Employee** and **Doctor**.

For example:

Input	Result
1	Employee Object
sharma	Id: 1
male	Name: sharma
Tata	Gender: male
pharma	Company: Tata
12	Department: pharma
revathi	
female	Doctor Object
aims	Id: 12
ENT	Name: revathi
	Gender: female
	Hospital: aims
	Department: ENT

Answer: (penalty regime: 0 %)



```
Question 5
Correct
Mark 1.00 out of 1.00
```

Let's dive into the interesting topic of regular expressions! You are given some input, and you are required to check whether they are valid mobile numbers.

A valid mobile number is a ten digit number starting with a 7,8 or 9.

Concept

A valid mobile number is a ten digit number starting with a 7,8 or 9.

Regular expressions are a key concept in any programming language. A quick explanation with Python examples is <u>available here</u>. You could also go through the link below to read more about regular expressions in Python.

Input Format

The first line contains an integer N, the number of inputs.

N lines follow, each containing some string.

Constraints

```
1 < N < 10
```

 $2 \leq len(Number) \leq 15$

Output Format

For every string listed, print "YES" if it is a valid mobile number and "NO" if it is not on separate lines. Do not print the quotes.

For example:

Input	Result	
2	YES	
9587456281	NO	
1252478965		

Answer: (penalty regime: 0 %)

```
import re
  num=int(input())
2
  for i in range(num):
3 ₹
4
       n=input()
       p=("[7|8|9]\d{9}")
5
       if re.match(p,n):
6
           print("YES")
7
8 •
       else:
           print("NO")
```

