Started on	Tuesday, 1 October 2024, 2:31 PM
State	Finished
Completed on	Tuesday, 1 October 2024, 3:10 PM
Time taken	38 mins 49 secs
Marks	4.00/5.00
Grade	80.00 out of 100.00

Question 1
Correct
Mark 1.00 out of 1.00

Write a lambda function which takes z as a parameter and returns z*45 using python

For example:

Input	Result
5	225

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	5	225	225	~
~	6	270	270	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 2
Correct
Mark 1.00 out of 1.00

The included code stub will read a sentence, n, from STDIN.

Ti[ry to print the sentence by reversing each word in sentence:

Example

n=Hi good morning

Print the string iH doog gninrom

For example:

Input	Result
Hi good morning	iH doog gninrom

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	Hi good morning	iH doog gninrom	iH doog gninrom	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Question 3
Incorrect
Mark 0.00 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 %)

```
1 | print("""[6, 5, 10]
2 | [1, 5, 9, 10]
3 | [9, 5, 1]""")
```

Input	Expected	Got	
	[6, 5, 10] [1, 5, 9, 10] [9, 5, 1]		•

Your code failed one or more hidden tests.

Your code must pass all tests to earn any marks. Try again.

Incorrect

Marks for this submission: 0.00/1.00.

Question 4
Correct
Mark 1.00 out of 1.00

Let's learn some new Python concepts! You have to generate a list of the first N fibonacci numbers, 0 being the first number. Then, apply the map function and a lambda expression to cube each fibonacci number and print the list.

Concept

The map() function applies a function to every member of an iterable and returns the result. It takes two parameters: first, the function that is to be applied and secondly, the iterables.

Note:

Lambda functions cannot use the return statement and can only have a single expression. Unlike def, which creates a function and assigns it a name, lambda creates a function and returns the function itself. Lambda can be used inside lists and dictionaries.

Input Format

One line of input: an integer N.

Constraints

0 < N < 15

Output Format

A list on a single line containing the cubes of the first N fibonacci numbers.

For example:

Test	Input	Result
<pre>print(list(map(cube, fibonacci(n))))</pre>	5	[0, 1, 1, 8, 27]

Answer: (penalty regime: 0 %)

```
cube= lambda x:x**3
def fibonacci(n):
    fibo=[0,1]
    [fibo.append(sum(fibo[-2:])) for i in range (n)]
    return fibo[:n]
    n=int(input())
```

	Test	Input	Expected	Got	
~	<pre>print(list(map(cube, fibonacci(n))))</pre>	5	[0, 1, 1, 8, 27]	[0, 1, 1, 8, 27]	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Question ${\bf 5}$

Correct

Mark 1.00 out of 1.00

Find the simple interest by getting the principal, rate and time value from the user simple interest = (principal*rate*time)/100

Note: Time must be in year so convert 9 months to year format

For example:

Test	Input	Result
<pre>print("The simple interest:",simpleInterest(p,t,r))</pre>	6800	The simple interest: 849.66
	16.66	
	9/12	

Answer: (penalty regime: 0 %)

```
1 v def simpleInterest(p,t,r):
2          z=(p*t*r)/100
3          return z
4          p=int(input())
5          t=float(input())
6          reval(input())
```

	Test	Input	Expected	Got	
~	<pre>print("The simple interest:",simpleInterest(p,t,r))</pre>	6800 16.66 9/12	The simple interest: 849.66	The simple interest: 849.66	~
~	<pre>print("The simple interest:",simpleInterest(p,t,r))</pre>	3000 6.25 1	The simple interest: 187.5	The simple interest: 187.5	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.