Started on	Thursday, 22 August 2024, 11:46 AM
State	Finished
Completed on	Thursday, 22 August 2024, 12:29 PM
Time taken	43 mins 32 secs
Marks	4.00/5.00
Grade	<b>80.00</b> out of 100.00

Question 1
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

 $\mathbf{insert} \ \mathbf{3} \ \mathbf{1}$ 

# 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,  $\boldsymbol{n}$ , denoting the number of commands.

Each line  $\boldsymbol{i}$  of the  $\boldsymbol{n}$  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 insert 0 5 insert 1 10 insert 0 6 print remove 6 append 9	[6, 5, 10] [1, 5, 9, 10] [9, 5, 1]
append 1 sort print pop reverse print	

Answer: (penalty regime: 0 %)

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

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

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.

1.

Question **2**Correct
Mark 1.00 out of 1.00

### Task

You are given a string S.

Your task is to find out if the string S contains: alphanumeric characters, alphabetical characters, digits, lowercase and uppercase characters.

#### Input Format

A single line containing a string S.

#### **Constraints**

0 < len(S) < 1000

## **Output Format**

In the first line, print True if S has any alphanumeric characters. Otherwise, print False.

In the second line, print True if S has any alphabetical characters. Otherwise, print False.

In the third line, print True if *S* has any *digits*. Otherwise, print False.

In the fourth line, print True if  $\boldsymbol{S}$  has any lowercase characters. Otherwise, print False.

In the fifth line, print True if  $\boldsymbol{S}$  has any uppercase characters. Otherwise, print False.

## For example:

Input	Result
qA2	True

## Answer: (penalty regime: 0 %)

```
s=input()
 2
    c,c1,c2,c3,c4=0,0,0,0,0
3 v for i in range(len(s)):
4
 5 1
        if s[i].isalnum():
 6
            c+=1
 7 🔻
        if s[i].isalpha():
 8
            c1+=1
 9 🔻
        if s[i].isdigit():
10
            c2+=1
11 •
        if s[i].islower():
12
            c3+=1
        if s[i].isupper():
13 •
14
            c4+=1
15
16
17 v if c>=1:
        print('True')
18
19
        print('False')
20
21 v if c1>=1:
        print('True')
22
```

	Input	Expected	Got	
~	qA2	True	True	~
		True	True	

Passed all tests! 🗸

Correct

Question  ${\bf 3}$ 

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 %)

	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

Question **4**Correct

Mark 1.00 out of 1.00

ABCXYZ company has up to 100 employees.

The company decides to create a unique identification number (UID) for each of its employees.

The company has assigned you the task of validating all the randomly generated UIDs.

A valid UID must follow the rules below:

- It must contain at least 2 uppercase English alphabet characters.
- It must contain at least 3 digits (0 9).
- It should only contain alphanumeric characters ( $\boldsymbol{a}$   $\boldsymbol{z}$ ,  $\boldsymbol{A}$   $\boldsymbol{Z}$  &  $\boldsymbol{0}$   $\boldsymbol{9}$ ).
- No character should repeat.
- There must be exactly 10 characters in a valid UID.

## **Input Format**

The first line contains an integer T, the number of test cases.

The next T lines contains an employee's UID.

## **Output Format**

For each test case, print 'Valid' if the UID is valid. Otherwise, print 'Invalid', on separate lines. Do not print the quotation marks.

## For example:

Input	Result
2	Invalid
B1CD102354	Valid
B1CDEF2354	

Answer: (penalty regime: 0 %)

```
Input Expected Got

✓ 2

B1CD102354
B1CDEF2354

Invalid Valid Valid
```

Passed all tests! ✓

Correct

5/17/25, 11:12 PM ASSESSMENT EXAM - VIII -SEB: Attempt review Question **5** Correct Mark 1.00 out of 1.00 Add the destructor in the following python code. For example: Result 1 born 1 died Answer: (penalty regime: 0 %) Reset answer print("1 born")
print("1 died") Expected Got 1 born 1 born 1 died 1 died Passed all tests! ✓

Correct