2.1.1. List operations



Write a Python program that implements a menu-driven interface for managing a list of integers. The program should have the following menu options:

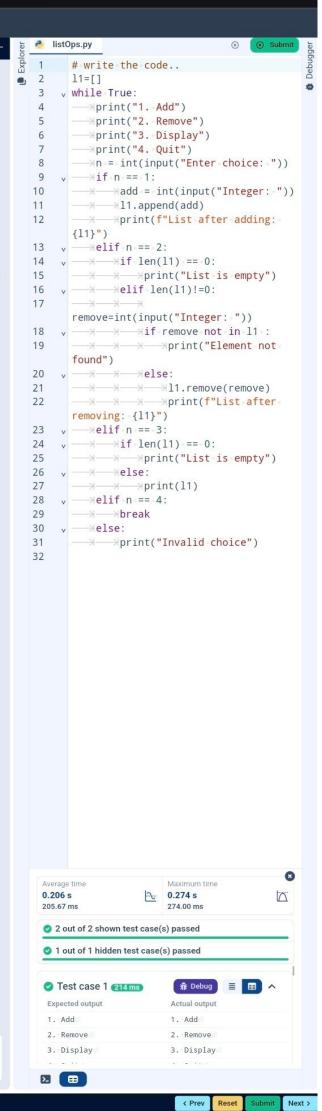
- 1. Add
- 2. Remove
- 3. Display
- 4. Quit

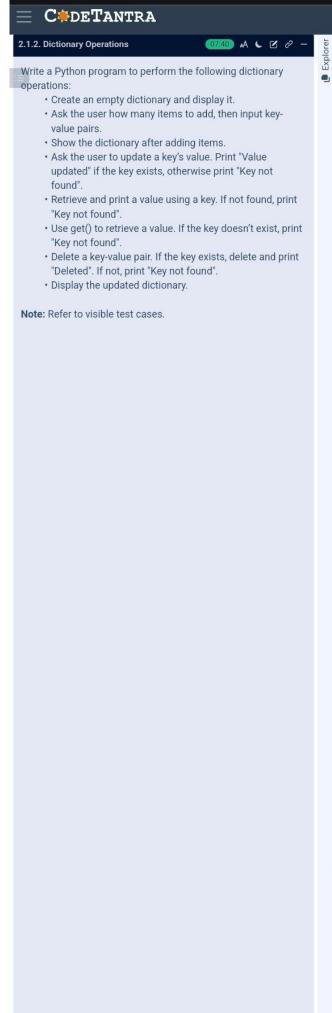
The program should repeatedly prompt the user to enter a choice from the menu. Depending on the choice selected, the program should perform the following actions:

- Add: Prompts the user to enter an integer and add it to the integer list. If the input is not a valid integer, display "Invalid input".
- Remove: Prompts the user to enter an integer to remove from the list. If the integer is found in the list, remove it; otherwise, display "Element not found". If the list is empty, display "List is empty".
- Display: Displays the current list of integers. If the list is empty, display "List is empty".
- · Quit: Exits the program.

Sample Test Cases

 The program should handle invalid menu choices by displaying "Invalid choice". Ensure that the program continues to prompt the user until they choose to quit (option 4).





Sample Test Cases

```
🤌 dictOperati...
                                       Submi
 1
      print("Empty Dictionary: {}")
 2
 3
      n=int(input("Number of items: "))
 4
    v for i in range(n):
       ──key=input("<mark>key: "</mark>)
 5
        value=input("value: ")
 6
 7
         ⇒d[key]=value
 8
      print("Dictionary:",d)
 9
10
      update_key=input("Enter the key to
      update: ")
11
     v if update_key in d:
12
       d[update_key]=input("Enter the
      new value: ")
      print("Value updated")
13
     v else:
15
         ⇒print("Key not found")
16
17
      retrieve_key=input("Enter the key to
      retrieve: ")
18
     v if retrieve_key in d:
         ⇒|print(f"Key: {retrieve_key},
19
      Value: {d[retrieve_key]}")
20
    v else:
21
         ⇒print("Key not found")
22
23
       get_key=input("Enter the key to get
      using the get() method: ")
     v if get_key in d:
25
          ⇒print(f"Key: {get_key}, Value:
      {d.get(get_key)}")
26
     v else:
27
        print("Key not found")
28
29
      delete_key=input("Enter the key to
      delete: ")
30
    v if delete_key in d:
31
       → del d[delete_key]
       print("Deleted")
32
33
    v else:
         ⇒print("Key not found")
34
35
36
      print("Updated Dictionary:",d)
37
                   0.100 s
  0.088 s
                                           2 out of 2 shown test case(s) passed
  2 out of 2 hidden test case(s) passed
                         ₩ Debug
  Test case 1 75 ms
  Expected output
  Empty Dictionary: {}
                        Empty Dictionary: {}
  Number of items: 1
                        Number of items: 1
  key: Name
                        key: Name
 ≥ =
```

< Prev

Reset

Next >



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