

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.
- 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

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Explorer

listOps.py

Submit

Debugger

```

1 # write the code..
2 l1=[]
3 while True:
4     print("1. Add")
5     print("2. Remove")
6     print("3. Display")
7     print("4. Quit")
8     n = int(input("Enter choice: "))
9     if n == 1:
10         add = int(input("Integer: "))
11         l1.append(add)
12         print(f"List after adding: {l1}")
13     elif n == 2:
14         if len(l1) == 0:
15             print("List is empty")
16         elif len(l1) != 0:
17             remove = int(input("Integer: "))
18             if remove not in l1:
19                 print("Element not found")
20             else:
21                 l1.remove(remove)
22                 print(f"List after removing: {l1}")
23     elif n == 3:
24         if len(l1) == 0:
25             print("List is empty")
26         else:
27             print(l1)
28     elif n == 4:
29         break
30     else:
31         print("Invalid choice")
32

```

Average time

0.206 s

205.67 ms

Maximum time

0.274 s

274.00 ms

2 out of 2 shown test case(s) passed

1 out of 1 hidden test case(s) passed

Test case 1 214 ms

Debug

Expected output

1. Add

2. Remove

3. Display

Actual output

1. Add

2. Remove

3. Display

Write a Python program to perform the following dictionary operations:

- Create an empty dictionary and display it.
- Ask the user how many items to add, then input key-value pairs.
- Show the dictionary after adding items.
- Ask the user to update a key's value. Print "Value updated" if the key exists, otherwise print "Key not found".
- Retrieve and print a value using a key. If not found, print "Key not found".
- Use get() to retrieve a value. If the key doesn't exist, print "Key not found".
- Delete a key-value pair. If the key exists, delete and print "Deleted". If not, print "Key not found".
- Display the updated dictionary.

Note: Refer to visible test cases.

Sample Test Cases

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Explorer

dictOperati...

Submit

Debugger

```

1  d={}
2  print("Empty Dictionary: {}".format(d))
3  n=int(input("Number of items: "))
4  for i in range(n):
5      key=input("key: ")
6      value=input("value: ")
7      d[key]=value
8  print("Dictionary:",d)
9
10 update_key=input("Enter the key to update: ")
11 if update_key in d:
12     d[update_key]=input("Enter the new value: ")
13     print("Value updated")
14 else:
15     print("Key not found")
16
17 retrieve_key=input("Enter the key to retrieve: ")
18 if retrieve_key in d:
19     print(f"Key: {retrieve_key}, Value: {d[retrieve_key]}")
20 else:
21     print("Key not found")
22
23 get_key=input("Enter the key to get using the get() method: ")
24 if get_key in d:
25     print(f"Key: {get_key}, Value: {d.get(get_key)}")
26 else:
27     print("Key not found")
28
29 delete_key=input("Enter the key to delete: ")
30 if delete_key in d:
31     del d[delete_key]
32     print("Deleted")
33 else:
34     print("Key not found")
35
36 print("Updated Dictionary:",d)
37

```

Average time

0.088 s

88.00 ms

Maximum time

0.100 s

100.00 ms

2 out of 2 shown test case(s) passed

2 out of 2 hidden test case(s) passed

Test case 1 75 ms

Debug

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Expected output

Actual output

Empty Dictionary: {}

Empty Dictionary: {}

Number of items: 1

Number of items: 1

key: Name

key: Name

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Reset

Submit

Next >

Write a program to check whether the given element is present or not in the array of elements using linear search.

Input format:

- The first line of input contains the array of integers which are separated by space
- The last line of input contains the key element to be searched

Output format:

- If the element is found, print the index.
- If the element is not found, print **Not found**.

Sample Test Case:**Input:**

1 2 3 4 3 5 6

3

Output:

2

Sample Test Cases



Explorer

CTP17092...



Submit

Debugger

```
1 # Function to perform linear search
2 def linear_search(arr, key):
3     # Iterate through the array
4     for i in range(len(arr)):
5         if arr[i] == key:
6             return i # Return the
            index if the element is found
7         return -1 # Return -1 if the
            element is not found
8
9 # Input: array of integers and key
            to search
10 arr = list(map(int,
            input().split())) # Convert the
            input string to a list of integers
11 key = int(input()) # The key
            element to be searched
12
13 # Perform linear search
14 result = linear_search(arr, key)
15
16 # Output the result
17 if result != -1:
18     print(result) # If found, print
            the index
19 else:
20     print("Not found") # If not
            found, print "Not found"
21
22
```

Average time

0.021 s

21.00 ms

Maximum time

0.025 s

25.00 ms

2 out of 2 shown test case(s) passed

2 out of 2 hidden test case(s) passed

Test case 1 22 ms

Debug



Expected output

1 2 3 4 3 5 6

3

2

Actual output

1 2 3 4 3 5 6

3

2

You are provided with the heights of 11 cricket players (in centimeters). Your task is to identify the tallest player, who will be selected as the captain of the team.

Input Format:

The first line of input will contain 11 integers, each representing the height of a player (in centimeters), each separated by a space.

Output Format

The output should be the height (in centimeters) of the tallest player.

Sample Test Cases

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Explorer

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Submit

Debugger

```
1 heights = list(map(int,
2 input().split()))
3 tallest_player = max(heights)
4 print(tallest_player)
```

Average time

0.011 s

11.33 ms

Maximum time

0.017 s

17.00 ms

✓ 1 out of 1 shown test case(s) passed

✓ 2 out of 2 hidden test case(s) passed

✓ Test case 1 17 ms

Debug

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Expected output

171 169 185 156 174 191
186 190 187 172 160

191

Actual output

171 169 185 156 174 191
186 190 187 172 160

191

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Reset

Submit

Next >