

Once Upon A For-Loop

~~* Indica una domanda obbligatoria~~

1. I agree to participate in the research study. I understand the purpose and nature of this study, and I am participating voluntarily. I understand that I can withdraw from the study at any time, without any penalty or consequences. I grant permission for the data generated and anonymised from this study to be used in the researcher's publications on this topic.

Contrassegna solo un ovale.

☐ Yes

☐ No *Vai alla sezione 5 (Thank you).*

Read following description and answer the questions below

(START OF CODE) write the function nextGreaterElement with following arguments: 'nums1' as a list of integers 'nums2' as a list of integers

(ASSIGNMENT OF VARIABLE)

set the variable l. l is defined as a list. This is an empty list.,

(FOR-LOOP)

iterate: for each element defined as the variable 'i' over the variable 'nums1'

(ASSIGNMENT OF VARIABLE)

set the variable count. count is defined as a the number: the number 0,

(FOR-LOOP)

iterate: for each element defined as the variable 'j' over the variable 'nums2',

(START OF IF STATEMENT)

if the variable 'i' is equal to the variable 'j',

(FOR-LOOP)

iterate: for each element defined as the variable 'k' over the sequence generated by the function

'range', give 'range' following arguments: argument-1 attribute index is applied to the variable 'nums2'

give attribute index following arguments: argument-1 the variable 'j' + the number 1 argument-2 the

function len call the function with following arguments: argument-1 the variable 'nums2' .,

(START OF IF STATEMENT)

if the element with index: k from 'nums2', is greater than the variable 'j' we now increment the variable

count by the number 1 apply the the method 'append' on 'l' with the following arguments: argument-1

the element with index: k from 'nums2',

BREAK,

(START OF IF STATEMENT)

if the the number count is equal to the number 0 apply the the method 'append' on 'l' with the

following arguments: argument-1 " - 1"

the function returns l,

(END OF FUNCTION)

1. Following, you will be shown a Python code, which is missing some lines. Refer to the description you just read and try to complete the TODOs.

Note that given indentations in the code should serve as a hint :)

You can find an EXAMPLE here:

Example

#TODO

```
mapped = []
```

```
n = 0
```

#TODO

```
mapped.append(head)
```

```
n += 1
```

```
head = head.next
```

#TODO

```
return mapped[k]
```



Please copy the provided code into your response and try to fill in the missing lines for the TODOs.

```
def middleNode(self, head: List):  
    mapped = []  
    n = 0  
    while head:  
        mapped.append(head)  
        n += 1  
        head = head.next  
    k = n // 2 if n % 2 else ceil(n/2)  
    return mapped[k]
```



```
2.  #TODO
    #TODO
    for i in nums1:
        #TODO
        #TODO
            if i==j:
                #TODO
                if nums2[k] > j:
                    #TODO
                    #TODO
                    break
            if count==0:
                #TODO

    return l
```

Please copy the provided code into your response and try to fill in the missing lines for the TODOs.

3. 2. Reading the description, I recognize the following programming concepts: *

Seleziona tutte le voci applicabili.☐ conditional statement (if, elif, else)☐ for loop☐ while loop☐ function☐ class☐ list☐ set☐ dictionary☐ variable assignment☐ lambda function☐ Altro: _____

Rate following statements on a scale with five options from 1 (Strongly disagree) to 5 (Strongly agree)

4. 3. The reading of the description is enjoyable to me. *

Contrassegna solo un ovale.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

5. 4. After reading the description, it is evident to me that it is about programming code. *

Contrassegna solo un ovale.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

6. 5. The description is entertaining and creative. *

Contrassegna solo un ovale.

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree
<hr/>						

7. 6. As a programming instruction, I find the description suitable. *

Contrassegna solo un ovale.

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree
<hr/>						

8. 7. The description makes sense to me. *

Contrassegna solo un ovale.

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree
<hr/>						

9. 8. After reading the description, it is easy to complete the code. *

Contrassegna solo un ovale.

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree
<hr/>						

10. 9. The description helps me understand the given code. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

11. 10. The description makes use of a technical language. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

12. 11. The description makes use of a narrative language. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

13. 12. The information in the description is conveyed (vermittelt) in a concise and precise manner.

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

14. 13. I would like to write code in this way in the future. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

15. 14. The description follows a logical sequence of events. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

16. 15. In the description I recognize a character, who acts. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

17. 16. In the description I recognize a series of challenges, the character has to deal with. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

Read following description and answer the questions below

A long time ago, within the ancient ruins of lost civilization a discreet barber wanted to tell a story about an adventurous archaeologist searching for lost treasures, Max Sullivan. The heroic Max had to decipher an ancient script.

This task was called 'removeDuplicates'. The main purpose of this task was the quest of a digit. The tools he needed in order to begin included an ordered mutable container of special numbers called nums. Within this task the charitable Max needed a box of unique numeric characters with no specific order called char: the tenacious Max needed a number called p: 0.

As long as 'p' was smaller than the length of nums the skilled Max checked whether the element with index p from 'nums' was contained in 'char', in this case he performed the trick 'remove' on nums. But 'remove' needed extra properties to work. So he dropped in the element with index p from 'nums'.

In any other case he performed the trick 'add' on char. But 'add' needed extra properties to work. So he dropped in the element with index p from 'nums'. The tenacious Max set p equal to : 'p' plus 1.

At the end of his task, Max Sullivan returned triumphant and victorious with the length of char.

1. Following, you will be shown a Python code, which is missing some lines. Refer to the description you just read and try to complete the TODOs.

Note that given indentations in the code should serve as a hint :)

18. **#TODO**

```
char: Set[int] = set()
p: int = 0
#TODO
    #TODO
    #TODO
else:
    #TODO
    p = p + 1
#TODO
```

Please copy the provided code into your response and try to fill in the missing lines for the TODOs.

19. 2. Reading the description, I recognize the following programming concepts: *

Seleziona tutte le voci applicabili.

- ☐ conditional statement (if, elif, else)
- ☐ for loop
- ☐ while loop
- ☐ function
- ☐ class
- ☐ list
- ☐ set
- ☐ dictionary
- ☐ variable assignment
- ☐ Altro: _____

Rate following statements on a scale with five options from 1 (Strongly disagree) to 5 (Strongly agree)

20. 3. The reading of the description is enjoyable to me. *

Contrassegna solo un ovale.

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree
<hr/>						

21. 4. After reading the description, it is evident to me that it is about programming code. *

Contrassegna solo un ovale.

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree
<hr/>						

22. 5. The description is entertaining and creative. *

Contrassegna solo un ovale.

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree
<hr/>						

23. 6. As a programming instruction, I find the description suitable. *

Contrassegna solo un ovale.

	1	2	3	4	5	
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree
<hr/>						

24. 7. The description makes sense to me. *

Contrassegna solo un ovale.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

25. 8. After reading the description, it is easy to complete the code. *

Contrassegna solo un ovale.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

26. 9. The description helps me understand the given code. *

Contrassegna solo un ovale.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

27. 10. The description makes use of a technical language. *

Contrassegna solo un ovale.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

28. 11. The description makes use of a narrative language. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

29. 12. The information in the description is conveyed (vermittelt) in a concise and precise manner.

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

30. 13. I would like to write code in this way in the future. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

31. 14. The description follows a logical sequence of events. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

32. 15. In the description I recognize a character, who acts. *

Contrassegna solo un ovale.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

33. 16. In the description I recognize a series of challenges, the character has to deal with. *

Contrassegna solo un ovale.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

Read following description and answer the questions below

Once upon a time in the magical kingdom of Pythonia, there lived a brave young programmer named equalFrequency. He possessed an extraordinary power to determine the equality of frequencies in a mystical word.

One day, a word of great importance arrived in Pythonia. The word whispered tales of its enchanting characters, and equalFrequency eagerly accepted the challenge to unravel its secrets.

With his sharp intellect, equalFrequency began his quest. He first examined the length of the word, for he knew that if the length matched the number of unique characters, a magical truth would be revealed. If this condition held true, equalFrequency celebrated the word's mystical properties and declared it equal in frequency.

But the journey did not end there. Knowing that the true nature of the word lay hidden within its characters, equalFrequency transformed the word into a list of symbols, unlocking a realm where each character could be studied individually.

With the power of an ancient spell, equalFrequency embarked on a fascinating loop. He traversed the word, inspecting each character closely. Whenever he encountered a character, he sought its position and marked it as 'b'. Through the gift of his intuition, equalFrequency confirmed that the character's presence within the word was undeniable.

With great wisdom, equalFrequency removed the character from the word, erasing it from existence. His intuition guided him to observe the remaining characters and their frequencies. If their frequencies were harmoniously equal, the word whispered tales of its uniformity, and equalFrequency rejoiced, proclaiming its equality.

However, if the frequencies did not align, equalFrequency knew that the word had concealed its true nature. In a moment of brilliance, he skillfully restored the character to its original position within the word, leaving no trace of his investigation.

EqualFrequency continued his valiant efforts, repeating the loop until every character had been examined. If his journey ended without discovering the word's equality, he sadly admitted defeat and bid the mystical word farewell.

And so, dear reader, this is the tale of equalFrequency, the noble programmer who traversed the magical kingdom of Pythonia, tirelessly seeking the equality of frequencies within a wondrous word. His code may appear cryptic and complex, but behind it lies a story of curiosity, determination, and the quest for hidden truths in the realm of programming.

1. Following, you will be shown a Python code, which is missing some lines. Refer to the description you just read and try to complete the TODOs.

Note that given indentations in the code should serve as a hint :)

```
34.  #TODO
    if len(word) == len(set(word)):
        #TODO
    word = list(word)
    #TODO
        #TODO
        if word.count(i) > 0:
            word.pop(word.index(i))
            #TODO
            return True
        else:
            #TODO
    return False
```

Please copy the provided code into your response and try to fill in the missing lines for the TODOs.

35. 2. Reading the description, I recognize the following programming concepts: *

Seleziona tutte le voci applicabili.

- ☐ conditional statement (if, elif, else)
- ☐ for loop
- ☐ while loop
- ☐ function
- ☐ class
- ☐ list
- ☐ set
- ☐ dictionary
- ☐ variable assignment
- ☐ lambda function
- ☐ Altro: _____

Rate following statements on a scale with five options from 1 (Strongly disagree) to 5 (Strongly agree)

36. 3. The reading of the description is enjoyable to me. *

Contrassegna solo un ovale.

1	2	3	4	5		
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree
<hr/>						

37. 4. After reading the description, it is evident to me that it is about programming code. *

Contrassegna solo un ovale.

1	2	3	4	5		
<hr/>						
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree
<hr/>						

38. 5. The description is entertaining and creative. *

Contrassegna solo un ovale.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

39. 6. As a programming instruction, I find the description suitable. *

Contrassegna solo un ovale.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

40. 7. The description makes sense to me. *

Contrassegna solo un ovale.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

41. 8. After reading the description, it is easy to complete the code. *

Contrassegna solo un ovale.

1 2 3 4 5

Stro ☐ ☐ ☐ ☐ ☐ Strongly agree

42. 9. The description helps me understand the given code. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

43. 10. The description makes use of a technical language. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

44. 11. The description makes use of a narrative language. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

45. 12. The information in the description is conveyed (vermittelt) in a concise and precise manner.

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

46. 13. I would like to write code in this way in the future. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

47. 14. The description follows a logical sequence of events. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

48. 15. In the description I recognize a character, who acts. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

49. 16. In the description I recognize a series of challenges, the character has to deal with. *

Contrassegna solo un ovale.

	1	2	3	4	5	
Stro	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

Thank you

Your response fails the requirements for the survey. But your response has been successfully registered. We appreciate the time you have given to this.

Questi contenuti non sono creati né avallati da Google.

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