

Python List Interview Questions

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- 3. How do you create a list with initial values in Python?**
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- 15. What are differences between `append()` and `extend()` methods in list?**
- 16. What are differences between `remove()` and `pop()` methods in list?**
- 17. What are differences between `index()` and `insert()` methods in list?**
- 18. Is list a Mutable or Immutable object ? Why ?**

19. How to repeat a list object multiple times ?

20. How to find the occurrences of given value in a list object ?

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1. What is a Python list?

- A list in Python is a collection of elements which is ordered and changeable. It allows duplicate members.

2. How do you create an empty list in Python?

```
my_list = []
```

3. How do you create a list with initial values in Python?

```
my_list = [1, 2, 3, 4, 5]
```

4. How do you access elements in a list?

- an access elements in a list using indexing. Indexing starts from 0.
- For example,
`my_list[0]` # accesses the first element.

5. How do you add an element to the end of a list?

- u can use the `append()` method.
`my_list.append(6)`

6. How do you add an element at a specific position in a list?

- u can use the `insert()` method.
`my_list.insert(2, 7)` # Insert 7 at index 2

7. How do you remove an element from a list?

- ou can use the `remove()` method if you know the value of the element you want to remove.
`my_list.remove(3)` # Removes the first occurrence of 3
- You can use the `pop()` method if you want to remove an element by its index.
`my_list.pop(2)` # Removes the element at index 2

8. How do you check if an element is in a list?

- can use the `in` keyword.

```
if 5 in my_list:
```

```
    print("5 is in the list")
```

9. How do you find the length of a list?

- you can use the `len()` function.

```
length = len(my_list)
```

10. How do you concatenate two lists?

- can use the `+` operator.

```
new_list = my_list + [8, 9, 10]
```

11. How do you iterate over a list?

- you can use a `for` loop.

```
for item in my_list:
```

```
    print(item)
```

12. How do you reverse a list?

- can use the `reverse()` method.

```
my_list.reverse()
```

13. How do you sort a list?

- the `sort()` method.

```
my_list.sort()
```