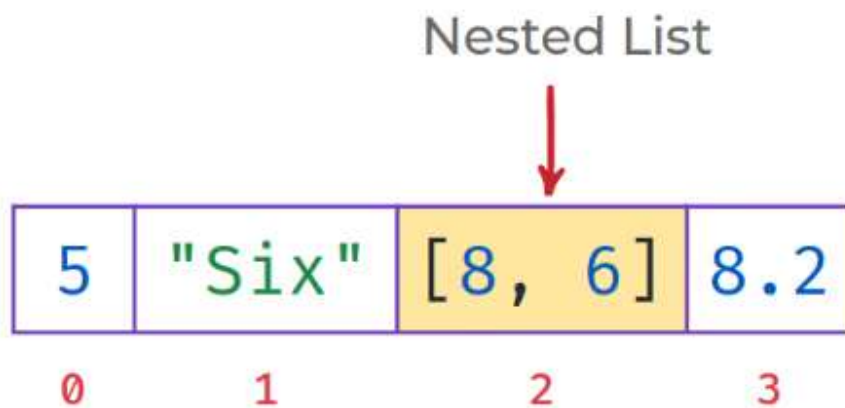


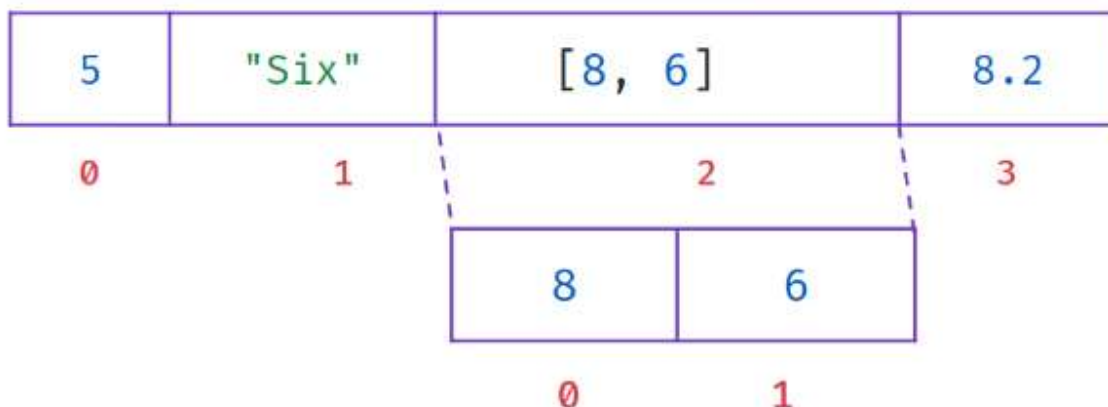
Cheat Sheet

Nested Lists & String Formatting

A list as an item of another list.



Accessing Nested List



Code

PYTHON

```
1 list_a = [5, "Six", [8, 6], 8.2]
2 print(list_a[2])
```

Output

```
[8, 6]
```

Accessing Items of Nested List

Example - 1

Code

PYTHON

```
1 list_a = [5, "Six", [8, 6], 8.2]
2 print(list_a[2][0])
```

Output

```
8
```

Example - 2

Code

PYTHON

```
1 list_a = ["Five", "Six"]
2 print(list_a[0][1])
```

Output

i

String Formatting

Code

PYTHON

```
1 name = input()
2 age = int(input())
3 msg = ("Hi " + name + ". You are " + str(age) + " years old.")
4 print(msg)
```

String formatting simplifies this concatenation.

It increases the readability of code and type conversion is not required.

Add Placeholders

Add placeholders

`{}` where the string needs to be formatted.

PYTHON

```
1 msg = "Hi {}. You are {} years old."
2 msg.format(val_1, val_2, ..)
```

Inserts values inside the string's placeholder

`{}`

Code

PYTHON

```
1 name = "Raju"
2 age = 10
3 msg = "Hi {}. You are {} years old."
4 print(msg.format(name, age))
```

Output

Hi Raju. You are 10 years old.

Number of Placeholders

Code

PYTHON

```
1 name = "Raju"
2 age = 10
3 msg = "Hi {}. You are {} years old {}."
4 print(msg.format(name, age))
```

Output

IndexError: Replacement index 2 out of range for positional args tuple

Numbering Placeholders

Numbering placeholders, will fill values according to the position of arguments.

Code

PYTHON

```
1 name = input()
2 age = int(input())
3 msg = "Hi {0}. You are {1} years old."
4 print(msg.format(name, age))
```

Input

Raju

10

Output

Hi Raju. You are 10 years old.

Code

PYTHON

```
1 name = input()
2 age = int(input())
3 msg = "Hi {1}. You are {0} years old."
4 print(msg.format(name, age))
```

Input

Raju
10

Output

Hi 10. You are Raju years old.

Naming Placeholder

Naming placeholders will fill values according to the keyword arguments.

Code

PYTHON

```
1 name = input()
2 age = int(input())
```

```
2 age = int(input())
3 msg = "Hi {name}. You are {age} years old."
4 print(msg.format(name=name, age=age))
```

Input

Raju
10

Output

Hi Raju. You are 10 years old.

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