



```
arr = [10, 4, 5, 7, 9]
number = 10
teacherName = "Ronan"
isChange = True
```



```
let arr = [10, 4, 5, 7, 9];
let number = 10;
let teacherName = "Ronan";
let isChange = true;
```



**and**

**or**

**not**



**&&**

**||**

**!**



```
a = 10
```

```
b = 5
```

```
if (a > 10 and b <= 5):
```

```
|     print("Ronan")
```

```
elif (a > 10 or b <= 5):
```

```
|     print("Rady")
```

```
else:
```

```
|     print("Him")
```



```
let a = 10;
```

```
let b = 5;
```

```
if (a > 10 && b <= 5) {
```

```
|     console.log("Ronan")
```

```
}else if (a > 10 || b <= 5) {
```

```
|     console.log("Rady")
```

```
}else{
```

```
|     console.log("Him")
```

```
}
```



```
✓ for i in range(3):  
    print(i)
```



```
// 1. i++  
✓ for (let i = 0; i < 3; i++) {  
    console.log(i)  
}  
  
// 2. i = i + 1  
✓ for (let i = 0; i < 3; i = i + 1) {  
    console.log(i)  
}  
  
// 3. i += 1  
✓ for (let i = 0; i < 3; i += 1) {  
    console.log(i)  
}
```



```
for i in range(0, 5, 2):  
    print(i)
```



```
✓ for (let i = 0; i < 5; i += 2) {  
    console.log(i)  
}
```



```
arr = [10, 4, 5, 7, 9]
```

```
for index in range(len(arr)):
    print(index)
```



```
let arr = [10, 4, 5, 7, 9];
```

```
✓ for(let index in arr) {
    |   console.log(index);
    | }
}
```

```
// OR
```

```
✓ for (let i = 0; i < arr.length; i ++) {
    |   console.log(i);
    | }
}
```



```
arr = [10, 4, 5, 7, 9]
```

```
for value in arr:  
    print(value)
```



```
let arr = [10, 4, 5, 7, 9];
```

```
for(let value of arr) {  
    console.log(value);  
}
```



```
arr = [10, 4, 8, 9]
index = 0
✓ while index < len(arr):
    |     print(arr[index])
    |     index += 1
```



```
let arr = [10, 4, 8, 9];
let index = 0;
while (index < arr.length) {
    |     console.log(arr[index]);
    |     index += 1; // index++
}
```





```
arr = [10, 4, 8, 9]
isFound = False
counter = 0
while (not isFound and counter < len(arr)):
    for value in arr:
        if (value == 7):
            isFound = True
            counter += 1

if isFound:
    print("We found number 7 in this array")
else:
    print("No 7 number in this array")
```



```
let arr = [10, 4, 8, 8];
let isFound = false;
let counter = 0;
while (!isFound && counter < arr.length) {
    for (let value of arr) {
        if (value == 7) {
            isFound = true;
        }
        counter++;
    }
}
if (isFound) {
    console.log("We found number 7 in this array");
}else{
    console.error("No 7 number in this array");
}
```



```
def sum(a, b):  
    return a + b  
  
print(sum(10, 40))
```



```
function sum(a, b) {  
    return a + b;  
}  
  
console.log(sum(10, 40));
```



```
dictionary = {'name': 'rady', 'age': 26}
```

```
for key in dictionary:  
    print(key)
```



```
let object = {'name': 'rady', 'age': 26};
```

```
for (let key in object) {  
    console.log(key)  
}
```



```
dictionary = {'name': 'rady', 'age': 26}  
  
print(dictionary['name'])
```



```
let object = {'name': 'rady', 'age': 26};  
  
console.log(object['name']);
```



```
dictionary = {'name': 'rady', 'age': 26}
```

```
for key in dictionary:  
    print(dictionary[key])
```



```
let object = {'name': 'rady', 'age': 26};
```

```
for (let key in object) {  
    console.log(object[key])  
}
```



```
arrDictionary = [  
    {'name': 'rady', 'age': 26},  
    {'name': 'ronan', 'age': 40},  
    {'name': 'him', 'age': 19},  
]  
  
print(arrDictionary[0]['name'])
```



```
let arrObject = [  
    {'name': 'rady', 'age': 26},  
    {'name': 'ronan', 'age': 40},  
    {'name': 'him', 'age': 19},  
];  
  
console.log(arrObject[0]['name'])
```



```
arrDictionary = [  
    {'name': 'rady', 'age': 26},  
    {'name': 'ronan', 'age': 40},  
    {'name': 'him', 'age': 19},  
]  
for dictionary in arrDictionary:  
    for key in dictionary:  
        print(dictionary[key])
```



```
let arrObject = [  
    {'name': 'rady', 'age': 26},  
    {'name': 'ronan', 'age': 40},  
    {'name': 'him', 'age': 19},  
];  
for (let object of arrObject) {  
    for (let key in object) {  
        console.log(object[key])  
    }  
}
```