



FOR LOOP

ITERATION STATEMENT

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TOPIC OUTLINE

for Loop

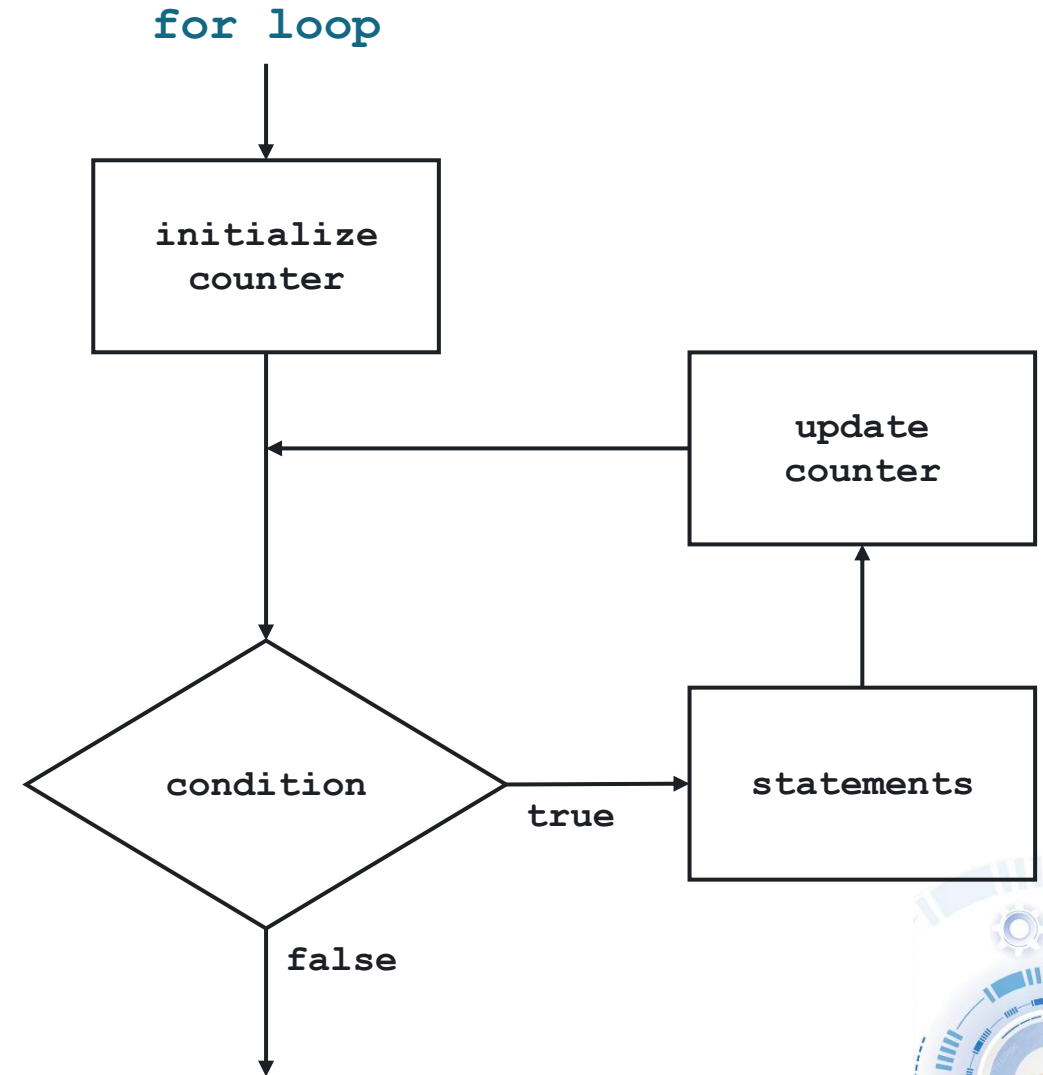


FOR LOOP



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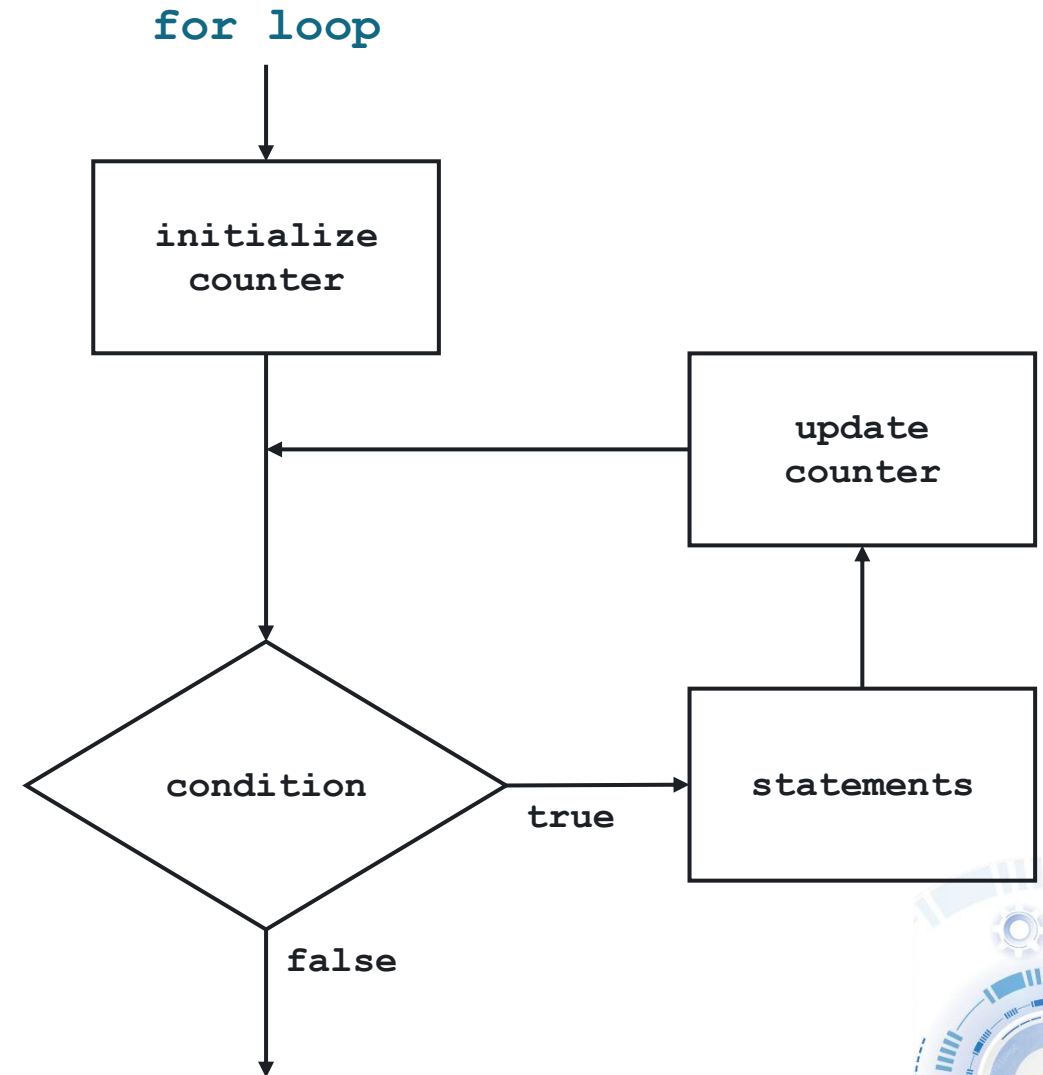
A for loop is a control flow statement that allows you to repeatedly execute a block of code a specific number of times. It is particularly useful when you know in advance how many times you want to iterate over a block of code.



FOR LOOP

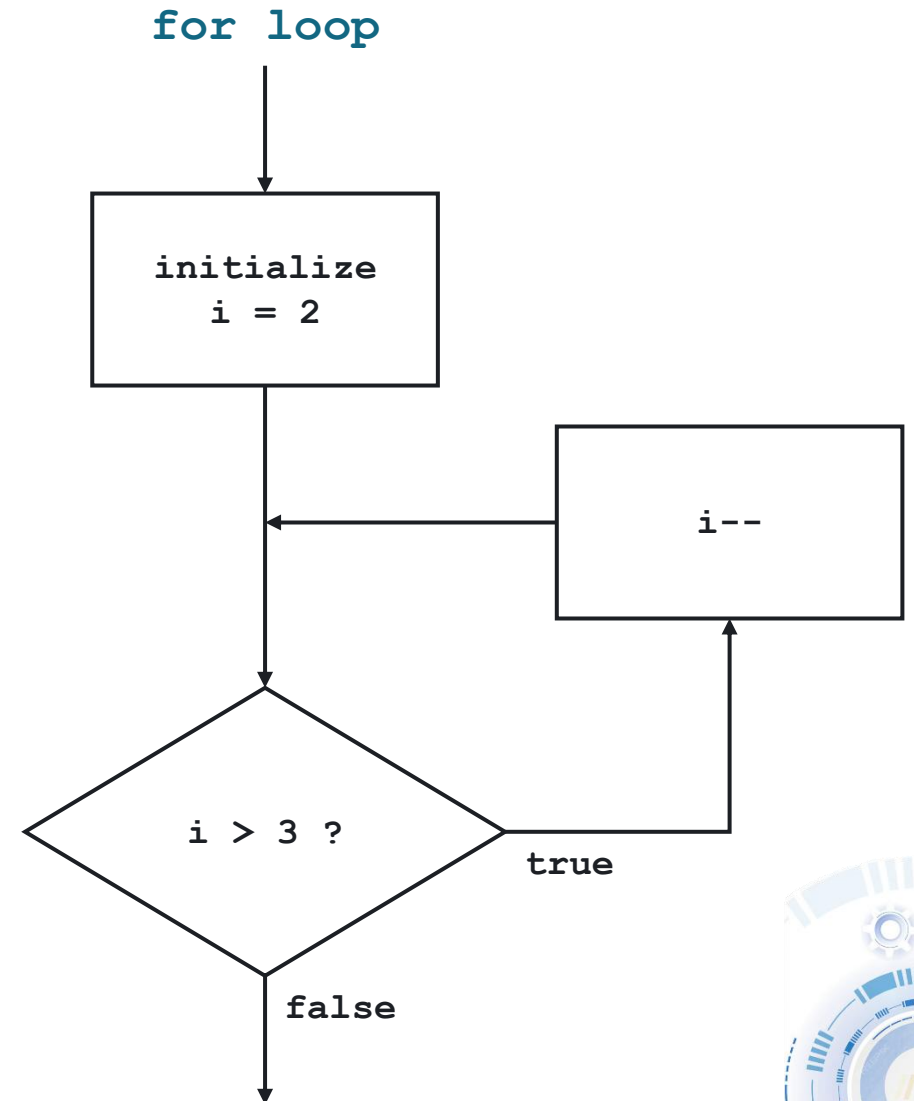
Syntax of the `for` loop statement:

```
for (initialization; condition; update) {  
    // repeat code while the  
    condition is true  
}
```



EXERCISE

```
for(int i = 2; i > 3; i--){  
    cout << i;  
}
```



EXERCISE

Compare the output of the **while** loop vs **for** loop code snippet:

```
int count = 0;

while(count <= 3 ){

    cout << count;

    count++;

}
```

output:

```
for(int i = 0; i <= 3; i++){

    cout << i;

}
```

output:



EXERCISE

Determine the output of this code snippet:

```
for(int a = 1; a <= 5; a++){  
    cout << a;  
}
```

output:

Determine the output of this code snippet:

```
for(int y = 5; y > 0; y--){  
    cout << y << " ";  
}
```

output:



EXERCISE

Determine the output of this code snippet:

```
for(int z = 10; z >= 0; z-=2) {  
    cout << z << " ";  
}
```

output:

Determine the output of this code snippet:

```
int a = 0;  
for(int z = 10; z >= 0; z-=2) {  
    cout << z << " ";  
    cout << a;  
    a++;  
}
```

output:



EXERCISE

Determine the output of this code snippet:

```
for(int a = 0; a <= 10; a++){  
    if(a % 2 == 0){  
        cout << a << "\n";  
    }  
}
```

output:

Determine the output of this code snippet:

```
for (int i = 0; i < 3; i++){  
    for (int j = 0; j < 3; j++){  
        cout << i << j << endl;  
    }  
}
```

output:



LABORATORY

