

for Loop

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

Example - for Loop

sum: 0

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

sum: 0
i: 1

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

sum: 0
i: 1

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

1 <= 3
true

sum: 0
i: 1

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

sum: 1
i: 1

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

sum: 1
i: 2

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

sum: 1
i: 2

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

2 <= 3
true

sum: 1
i: 2

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

sum: 3
i: 2

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

sum: 3
i: 3

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

sum: 3
i: 3

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

3 <= 3
true

sum: 3
i: 3

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

sum: 6
i: 3

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

sum: 6
i: 4

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

sum: 6
i: 4

Example - for Loop

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

4 <= 3
false

sum: 6
i: 4

Example - for Loop

sum: 6

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```

Example - for Loop

Note:

i is gone

sum: 6

```
int sum = 0;  
  
for (int i = 1; i <= 3; ++i)  
    sum += i;  
  
std::cout << sum << "\n";
```