



# Java for Keyword

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## Example

Print the numbers 0 to 4:

```
for (int i = 0; i < 5; i++) {  
    System.out.println(i);  
}
```

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## Definition and Usage

The **for** loop loops through a block of code a number of times.

From the example above:

- Statement 1 sets a variable before the loop starts (int i = 0).
- Statement 2 defines the condition for the loop to run (i must be less than 5). If the condition is true, the loop will start over again, if it is false, the loop will end.

- Statement 3 increases a value (i++) each time the code block in the loop has been executed.

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## More Examples

There is also a "**for-each**" loop, which is used exclusively to loop through elements in an **array**:

The following example outputs all elements in the **cars** array, using a "**for-each**" loop:

### Example

```
String[] cars = {"Volvo", "BMW", "Ford", "Mazda"};
for (String i : cars) {
    System.out.println(i);
}
```

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