

# Julia Bitwise Operators

## Julia Bitwise Operators

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In this Julia Tutorial, we will learn about Julia Bitwise Operators.

The following table lists available bitwise operators in Julia.

Expression	Name
<code>~x</code>	bitwise not
<code>x &amp; y</code>	bitwise and
<code>x   y</code>	bitwise or
<code>x ^ y</code>	bitwise xor (exclusive or)
<code>x &gt;&gt;&gt; y</code>	logical shift right
<code>x &gt;&gt; y</code>	arithmetic shift right
<code>x &lt;&lt; y</code>	logical/arithmetic shift left

### Bitwise NOT

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```
julia> x = 10
10

julia> ~x
-11
```

### Bitwise AND

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```
julia> x = 10
10

julia> y = 25
25

julia> x & y
8
```

## Bitwise OR

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```
julia> x = 10
10

julia> y = 25
25

julia> x | y
27
```

## Bitwise XOR

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```
julia> x = 10
10

julia> y = 25
25

julia> x ^ y
19
```

## Logical Shift Right

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```
julia> x = 25
25

julia> x >>> 2
6
```

## Arithmetic Shift Right

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```
julia> x = 25
25

julia> x >> 2
6
```

## Logical/Arithmetic Shift Left

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```
julia> x = 25
25

julia> x << 1
50
```

## Conclusion

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In this [Julia Tutorial](#), we learned Julia Bitwise Operators and how to use them with examples.

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### Julia Basics

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◆ Julia Arithmetic Operators

⇒ **Julia Bitwise Operators**

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### Julia Mathematical Functions

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◆ Julia Cube Root

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