

FN.2

Concept of Calling Built-in Functions

Calling Built-in Functions

Calling Functions

To take advantage of functions that are part of the programming language, we need to **call** them.

```
print("Hello, World")
```

Calling Functions

To take advantage of functions that are part of the programming language, we need to **call** them.

function name

```
print("Hello, World")
```

Calling Functions

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function name

function input

```
print("Hello, World")
```

Calling Functions

To take advantage of functions that are part of the programming language, we need to **call** them.

```
print("Hello, World")
```

Call/Execute/Invoke

Step 1: Value of input is Sent to Function

Step 2: Function Executes

Calling Functions

To take advantage of functions that are part of the programming language, we need to **call** them.

Printed to screen

```
print("Hello, World")
```

Hello, World

Call/Execute/Invoke

Step 1: Value of input is Sent to Function

Step 2: Function Executes

Calling Functions that Return Values

Some functions return values.

```
compute_average( 

|   |   |   |
|---|---|---|
| 5 | 6 | 7 |
|---|---|---|

 )
```


Calling Functions that Return Values

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|   |   |   |
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 )
```

Call/Execute/Invoke

Step 1: Value of input is Sent to Function

Step 2: Function Executes

Step 3: Value is Returned from Function

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Call/Execute/Invoke

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Call/Execute/Invoke

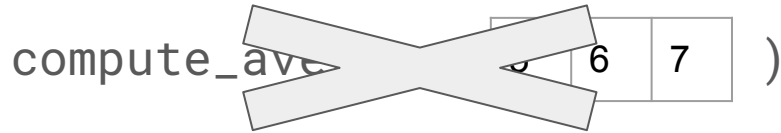
Step 1: Value of input is Sent to Function

Step 2: Function Executes

Step 3: Value is Returned from Function

Calling Functions that Return Values

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Call/Execute/Invoke

Step 1: Value of input is Sent to Function

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Calling Functions that Return Values

Some functions return values.

6

Call/Execute/Invoke

Step 1: Value of input is Sent to Function

Step 2: Function Executes

Step 3: Value is Returned from Function

Calling Functions that Return Values

Some functions return values. In the code that **calls** that function, we need to capture that return value and do something with it.

```
mean <- compute_average( 

|   |   |   |
|---|---|---|
| 5 | 6 | 7 |
|---|---|---|

 )
```

First: Call/Execute/Invoke

Second: Assign value to a variable

Name	Value

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mean <- compute_average(

|   |   |   |
|---|---|---|
| 5 | 6 | 7 |
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```

Call/Execute/Invoke

Step 1: Value of input is Sent to Function

Step 2: Function Executes

Step 3: Value is Returned from Function

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```
mean <- compute_average(

|   |   |   |
|---|---|---|
| 5 | 6 | 7 |
|---|---|---|

)
```

Call/Execute/Invoke

Step 1: Value of input is Sent to Function

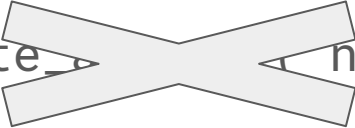
Step 2: Function Executes

Step 3: Value is Returned from Function

Name	Value

Calling Functions that Return Values

Some functions return values. In the code that **calls** that function, we need to capture that return value and do something with it.

```
mean <- compute(  nums )
```

Call/Execute/Invoke

Step 1: Value of input is Sent to Function

Step 2: Function Executes

Step 3: Value is Returned from Function

Name	Value

Calling Functions that Return Values

Some functions return values. In the code that **calls** that function, we need to capture that return value and do something with it.

```
mean <- 6
```

Call/Execute/Invoke

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Step 2: Function Executes

Step 3: Value is Returned from Function

Name	Value

Calling Functions that Return Values

Some functions return values. In the code that **calls** that function, we need to capture that return value and do something with it.

```
mean <- 6
```

Finish Assignment

Name	Value
mean	6

Calling Functions that Return Values

Some functions return values. In the code that **calls** that function, we need to capture that return value and do something with it. Input must be a value, so if it is a variable, we need to look up the value.

```
mean <- compute_average( nums )
```

First: Call/Execute/Invoke

Second: Assign value to a variable

Name	Value		
nums	5	6	7

Calling Functions that Return Values

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```
mean <- compute_average(

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|---|---|---|
| 5 | 6 | 7 |
|---|---|---|

)
```

Call/Execute/Invoke

Step 1: Value of input is Sent to Function

Step 2: Function Executes

Step 3: Value is Returned from Function

Name	Value			
nums	<table border="1" data-bbox="1522 568 1831 663"><tr><td>5</td><td>6</td><td>7</td></tr></table>	5	6	7
5	6	7		

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Call/Execute/Invoke

Step 1: Value of input is Sent to Function

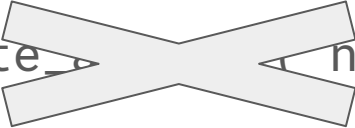
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mean <- compute(  nums )
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Call/Execute/Invoke

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```
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```

Finish Assignment

Name	Value			
nums	<table border="1"><tr><td>5</td><td>6</td><td>7</td></tr></table>	5	6	7
5	6	7		
mean	6			