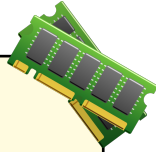


The for loop initialises *i* to the lowest index of data (0)



1

Sum	
data[]:	10.0
size:	3
i:	0
total:	0
result:	92
Instruction:	Step 2

Main	
my_data[]:	10.0
	-5
	17.21
Instruction:	Step 2

Function: Sum

-----  
Returns: Double - The sum of the numbers from the data array

Parameters:

- 1: data (by const ref, array of Double) - values to sum
- 2: size (Integer) - the number of elements in data (C only)

Local Variables:

- \*: i (Integer) - index of the current element in the array
- \*: total (Double) - running total

Steps:

- 1: total is assigned 0
- 2: For i, starts at 0 and loops to the highest index of data
- 3: total is assigned total + data[i]
- 4: Return the result, total

Procedure: Main

-----  
Local Variables:

- \*: my\_data (array containing 3 Double values) - data array

Steps:

- 1: Call Populate Array ( my\_data, 3 )
- 2: Output 'Sum is ', and Sum ( my\_data, 3 )
- 3: ...

2

The for loop controls this running over each element of the array



Terminal — bash — 80x24

```
Enter value 1: Ten
Please enter a number.
Enter value 1: 10.0
Enter value 2: -5
Enter value 3: 17.21
```

