

Answers to Questions from TT 6.1

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Hand execution using a trace table

Demonstrate how the following code is executed in the computer.

```
1 def whatdoesthisfunctiondo?(data)
2   result := 0;
3   i = 0
4   while i < data.length
5     result := result + data[ i ];
6     i = i + 1
7   end
8   return result
9 end
```

Draw and complete a trace table for the following two sets of data and place the final result in the table below:

<i>data</i>	<i>Result</i>
[6, -3, 3, 8, 1]	
[2, 6, -2, 3]	

Result for first data is 15.

Result for second data is 9.

Once you have completed your trace tables (below) write the name you chose for the function above:

Sum Of Array_____

Place your trace tables below:

For data set: [6, -3, 3, 8, 1]

i	data	result
0	6	0
0	6	6
1	-3	3
2	3	6
3	8	14
4	1	15

For data set [2, 6, -2, 3]

i	data	result
0	2	0
0	2	2
1	6	8
2	-2	6
3	3	9