Answers to Questions from TT 7.2.1

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Hand execution using a trace table

Demonstrate how the following code is executed in the computer.

```
1 def whatshouldthisfunctionbecalled?(data, val)
       i = 0
2
 3
       result = false
4
       while i < data.length
           if data[i] == val
 5
                result = true
6
                return result
 7
8
           end
           i = i + 1
9
10
       end
       return result
11
12 end
```

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

data	val	Result
[2, 6, -4, 3, 7]	3	true
[-2, 8, 2, -5, 9]	6	false

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

Place your trace tables below:

For data set: data = [2, 6, -4, 3, 7] val = 3

[2, 0, 1, 0, 7]		
Data	Index	Result
2	0	false
6	1	false
-4	2	false
3	3	true

For data set: **data** = [-2, 8, 2, -5, 9] **val** = 6

Data	Index	Result	
-2	0	false	
8	1	false	
2	2	false	
-5	3	false	
9	4	false	