

## Answers to Questions from TT 7.2.1

Name: Aaryan Bhati

Student ID: 104189110

### Hand execution using a trace table

*Demonstrate how the following code is executed in the computer.*

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

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

<i>data</i>	<i>val</i>		<i>Result</i>
[2, 6, -4, 3, 7]	3		
[-2, 8, 2, -5, 9]	6		

data	val	Result
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[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:

\_\_\_\_\_array\_\_\_\_\_

Place your trace tables below:

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

i	Data(i)	val	result
0	2	3	false
1	6	3	false
2	-4	3	false
3	3	3	True

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

i	Data(i)	val	result
0	-2	6	False
1	8	6	false
2	2	6	false
3	-5	6	False
4	9	6	false

