

Array Tracing

TASK 01:

myArray	index1	index2	output
1	\emptyset	\emptyset	4
2 10	\swarrow	\swarrow	7
3	$1+1=2$	\swarrow	11
4	$2+1=3$	$1+1=2$	17
5	$3+1=4$ $3+1+1=5$	\swarrow	27
6	$5+1=6$	$1+1=2$	45
7	$6+1=7$	$2+1=3$	79
8	$8+1=9$	$1+1=2$ $2+1=3$ $1+2+1=4$	145
9		$2+1=3$ $3+1=4$ $4+1=5$ $5+1=6$ $6+1=7$ $7+1=8$ $8+1=9$ $9+1=10$	275

TASK 01:

$$\text{myArray}[1] = 4$$

$$\text{myArray}[2] = 2 + 3 = 5 + 4 - 2 = 7$$

$$\text{myArray}[3] = 6 + 7 + 7 - 3 = 11$$

$$\text{myArray}[4] = 7 + 10 + 11 - 4 = 17$$

$$\text{myArray}[5] = 8 + 15 + 17 - 5 = 27$$

$$\text{myArray}[6] = 9 + 18 + 24 - 4 = 45$$

$$\text{myArray}[7] = 10 + 21 + 27 - 5 = 60$$

$$\text{myArray}[8] = 11 + 28 + 37 - 6 = 80$$

$$\text{myArray}[9] = 12 + 36 + 48 - 7 = 103$$

$$\text{myArray}[10] = 13 + 45 + 63 - 8 = 130$$

Task 2:

myArray	index 1	index 2		Output
10	0	0	1	5
	1	1+1=2	2 3 4 5 6 7	9
	1+1=2	1+1=2 2+1=3		15
	2+1=3	1+1=2 2+1=3 3+1=4	1	25
	3+1=4	1 2 3 4 5	2 3 4	43
	4+1=5	1 2 3 4 5 6	3 4 5 6 7	77
	5+1=6	1 2 3 4 5 6 7	9	143
	6+1=7	1 2 3 4 5 6 7		243
	7+1=8			531
	8+1=9			
	9+1=10			

Task 2

1

9+1=10.

991

TASK 2

my Array:

$$[1] = 5$$

$$[2] = 69$$

$$[3] = 7815$$

$$[4] = 891425$$

$$[5] = 99132343$$

$$[6] = 10912214677$$

$$[7] = 11911103775143$$

$$[8] = 12910143465138273$$

$$[9] = 1399183165133267531$$

$$[10] =$$