# PRACTICE

**HOW DOES A PRACTICE SESSION WORK?**

- STEP 1: individual work on paper

* Find the INPUT / OUPUT types
* Complete the output expected for the different inputs
* Write the main step of your program, for example :

**Get** array1

**Create** array2

**Loop** on numbers of array1

**If** number> 50

**Add** number to array2

- STEP 2: Meet – group 3 – be agree on solution

- STEP 3: Validation by teacher on paper

- STEP 4: Code it - individually

**EXERCISE 1**

* Check if all numbers in array are greater than 8 and less than 12.

### **Input**

* **(complete this type) = array**

### **Output**

* **(complete this type) = boolean**

### **Examples (complete the missing outputs)**

|  |  |
| --- | --- |
| INPUT | OUTPUT |
| [12, 8, 9] | True |
| [5, 8, 13] | False |
| [] | True |
| [54, 48, 143] | False |

**EXERCICE 2**

* Extract all values **between the first 1 and the first 0** in a list of integers.

### **Input**

* **(complete this type)**

### **Output**

* **(complete this type)**

### **Examples (complete the missing outputs)**

|  |  |
| --- | --- |
| INPUT | OUTPUT |
| [1, 9, 8, 0] | [9, 8] |
| [9, 8, 1, 0] | [ ] |
| [2, 1, 9, 8, 7] | [ ] |
| [1, 8, 4, 0, 0, 1, 1, 5, 0] | [8, 4] |
| [10, 0, 2, 1, 3, 0, 2] | [3] |
| [1, 2, 3, 4, 5] | [] |
| [2, 3, 4, 5] | [] |
| [2, 0, 2, 0] | [] |
| [ ] | [] |

**EXERCICE 3**

Check if average of array is greater than 50 print “Pass” otherwise print “Fail”.

### **Input**

* An array

### **Output**

* The text “Pass” and “Fail”

### **Examples (complete the missing outputs)**

|  |  |
| --- | --- |
| INPUT | OUTPUT |
| [10, 99, 70,83] | Pass |
| [1, 2, 3, 5, 20] | Fail |
| [51] |  |
| [] |  |

**EXERCICE 4**

* Check how many True Boolean value in array

### **Input**

* An array

### **Output**

* The number

### **Examples (complete the missing outputs)**

|  |  |
| --- | --- |
| INPUT | OUTPUT |
| [True, False, True, False, False, False] | 2 |
| [False, False, False, False] | 0 |
| [] |  |
| [False] |  |

**EXERCICE 5**

### Input a number

### Display even numbers from 0 till that number

### **Input**

* An number

### **Output**

* A string

### **Examples (complete the missing outputs)**

|  |  |
| --- | --- |
| INPUT | OUTPUT |
| 5 | 0 2 4 |
| 10 | 0 2 4 6 8 10 |
| 0 | 0 |
| 18 |  |
| 7 |  |