# **TEAM 2**

**MEMBER**

**1. Nong Phlouet**

**2. Chhilin Yun**

**3. Dariya Thorn**

**EXERCISE 1**

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

### **Input**

* **(complete this type)**

### **Output**

* **(complete this type)**

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

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

* **STEP1**

**Nong Phlouet:**

Main step:

**Get** array1

**Loop** on numbers of array1

**If** number <8 and number> 12:

**Chhilin Yun**

Main step:

**Get** arrayOfInterger

isFound=True

**Loop** on num of array

**If** num< =8 or num>=12

isFound=False

**Dariya Thorn**

Main step:

**Get** array

**Create** array

**Loop** for i in array

**If** I > 12 and I >8

**Boolean True and False**

* **STEP2**

Final main step

**Get** arrayOfInterger

isFound=True

**Loop** on num of array

**If** num> =8 or num<=12

isFound=False

* **STEP3**

**Nong Phlouet:**

Code:

array = eval=(input()

iSTrue = True

for arr in array:

if arr < 8 and arr <= 12:

iSTrue = False

print(iSTrue)

**Chhilin Yun**

Code:

array=eval(input("Enter"))

isFound=True

for num in array:

    if num <=8 or num >=12:

        isFound=False

print(isFound)

**Dariya Thorn**

Code:

array=eval(input())

isFoud=False

result=0

for i in array:

if i <12 and i>8:

result+=i

isFoud=True

print(isFoud)

**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] | [ ] |
| [ ] | [ ] |

* **STEP1**

**Nong Phlouet:**

Main step:

**Get** arrayOfNumber

**Loop** on numbers of array1

**If** arrayOfnumber==1:

iStrue=True

if arrayOfnumber !=0

result.uppend

if arrayOfnumber==0

iStrue=False

**Chhilin Yun**

Main step:

**Get** array

**Loop** on numbers of array

**If** array[i]==1:

iStrue=True

if array[i] !=0

result+=arra[i]

if arrayOfnumber==0

iStrue=False

**Dariya Thorn**

Main step:

**Get** array

**Create** array

**Loop** for I in range(len(array))

**If** array[num] ==1

**elif** array[num] ==0

el**If** isFound == True

el**If** isFound == False and len(result) >0

**Boolean True and False**

* **STEP2**

Final main step

**Get** array

**Create** array

**Loop** for I in range(len(array))

**If** array ==1

isFound == True

**elif** array[num] ==0

isFound == True

el**If** isFound == False and len(result) >0

result.pop(0)

**Boolean True and False**

* **STEP3**

**Nong Phlouet:**

Code:

array=eval(input())

iSOne = False

iSZero = True

result = []

for i in array:

if i == 1 and not iSOne:

iSOne = True

elif i != 0 and iSOne and iSZero:

result.append(i)

elif i == 0 and iSOne and iSZero:

iSZero = False

if iSZero != True:

iSResult = result

else:

iSResult = []

print(iSResult)

**Chhilin Yun**

Code:

Number=eval(input())

result = []

isFound = False

for num in range(len(array)):

if array[num] == 1:

isFound = True

elif array[num] == 0:

isFound = False

elif isFound == True:

result.append(array[num])

elif isFound == False and len(result) > 0:

result.pop(0)

print(number(listarray))

**Dariya Thorn**

Code:

def number(array):

result = []

isFound = False

for num in range(len(array)):

if array[num] == 1:

isFound = True

elif array[num] == 0:

isFound = False

elif isFound == True:

result.append(array[num])

elif isFound == False and len(result) > 0:

result.pop(0)

return result

listarray = eval(input())

print(number(listarray))

**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] | Pass |
| [] | Fail |

**Nong Phlouet:**

Main step:

getarrayOfnumber

loop arrayOfnumber

numberOfarray+=array[i]

index+=1

average=numberOfarray/index

if average >50

result=pass

**Chhilin Yun**

Main step:

Get arrayOfInterger

result=”Fail”

if len(arrayOfInterger)

loop num of array

isNumber+=num

index+=1

newNumber=isNumber/index

if Number>50

result=”Pass”

**Dariya Thorn**

Main step:

**Get** array

**Create** array

**Loop** for I in range(len(array))

**If** len(array)>0

If average >=50

* **STEP2**

Final main step

getarrayOfnumber

loop arrayOfnumber

numberOfarray+=array[i]

index+=1

average=numberOfarray/index

if average >50

result=pass

* **STEP3**

**Nong Phlouet:**

Code:

array =eval(input("arrayOfNumber:"))

sumOfNmber = 0

index = 0

averangeOfSum = 0

if len(array) > 0:

for i in range(len(array)):

sumOfNmber += array[i]

index += 1

averangeOfSum = sumOfNmber/index

if averangeOfSum >= 50 :

result = "Pass"

else:

result = "Fail"

print(result)

**Chhilin Yun**

Code:

array=eval(input("Enter"))

isNumber=0

index=0

newNumber=0

result="Fail"

if len(array) > 0:

for num in array:

isNumber+=num

index+=1

newNumber=isNumber/index

if newNumber>= 50 :

result="Pass"

print(result)

**Dariya Thorn**

Code:

array=eval(input())

sum = 0

index = 0

average = 0

result="Fail"

for i in range(len(array)):

if (len(array)) > 0:

sum+= array[i]

index+= 1

average = sum/index

if average >= 50:

result="Pass"

print(result)

**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 |
| [] | 0 |
| [False] | 0 |

* **STEP1**

**Nong Phlouet:**

Main step:

**Get** arrayOfstring

**Loop** on arrayOfstring

**If** index arrayOfstrin==”True”

Result+=1

**Chhilin Yun**

Main step:

**Get** arrayOfBoolean

isNumber=0

loop num of array

if num=Boolean

isNumber+=num

**Dariya Thorn**

Main step:

**Get** array

**Create** array

**Loop** for I in range (len(array))

**If** array[i]==True

* **STEP2**

Final main step

**Get** arrayOfBoolean

loop num of array

if num=True

isNumber+=1

* **STEP3**

**Nong Phlouet:**

Code:

stringOfArray = eval(input("Enter string: "))

result = 0

for arr in stringOfArray:

if arr == True:

result += 1

print(result)

**Chhilin Yun**

Code:

array=eval(input("Enter"))

isNumber=0

for index in array:

if index==True:

isNumber+=index

print(isNumber)

**Dariya Thorn**

Code:

array=eval(input())

result=0

for i in range (len(array)):

if array[i]==True:

result+=1

print(result)

**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 | 0 2 4 6 8 10 12 14 16 18 |
| 7 | 0 2 4 6 |

* **STEP1**

**Nong Phlouet:**

Main step:

**Get** numbers

**Loop** on numbers

**If** index%2==0:

**Chhilin Yun**

Main step:

**Gret** arrayOfNumber

Loop num of Number

If num/2=0

Result+=str(num)

**Dariya Thorn**

Main step:

**Get** array

**Create** array

**Loop** for index in range (array+1)

**If** index % 2 == 0

* **STEP2**

Final main step

**Get** array

**Create** array

**Loop** for index in range (array+1)

**If** index % 2 == 0:

result+=1

* **STEP3**

**Nong Phlouet:**

Code:

number = int(input("Enter The Number: "))

for i in range(number + 1):

if i %2 == 0:

print(i,end=" ")

**Chhilin Yun**

Code:

number=eval(input("Enter"))

result=""

for num in range(number+1):

if num%2==0:

result+=str(num)+" "print(result)

**Dariya Thorn**

Code:

array=10

result=""

num=0

for index in range(array+1):

if index %2 == 0:

result+=str(index)+" "

print(result)