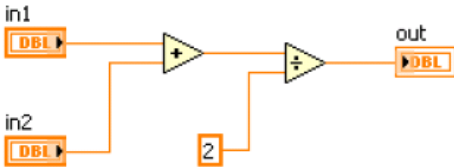
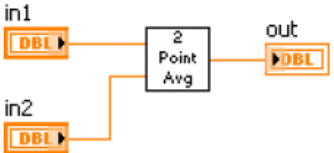




Sous-VI Tableaux

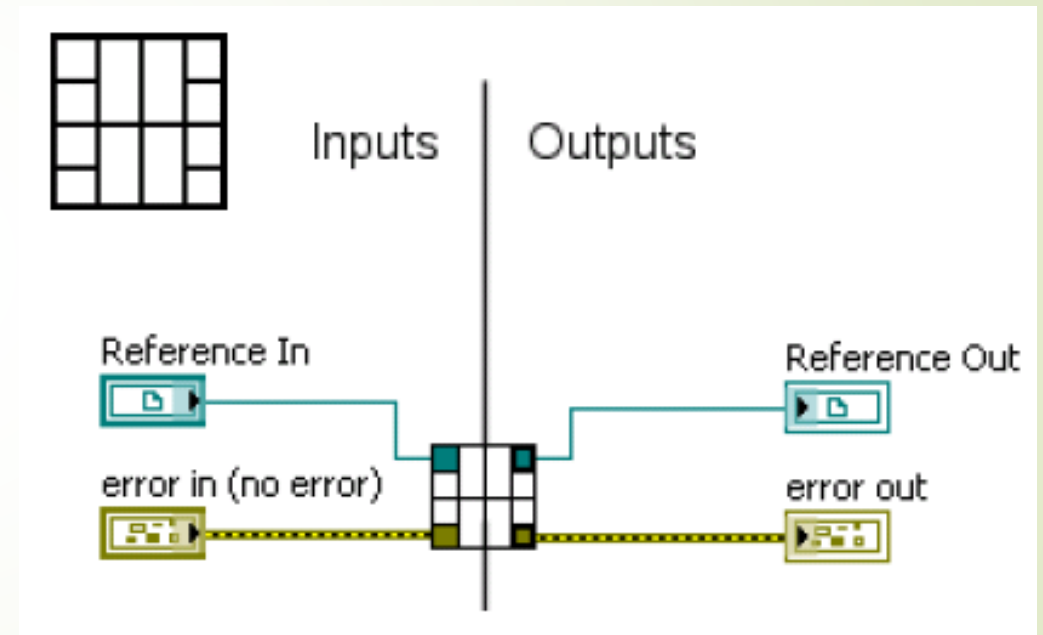
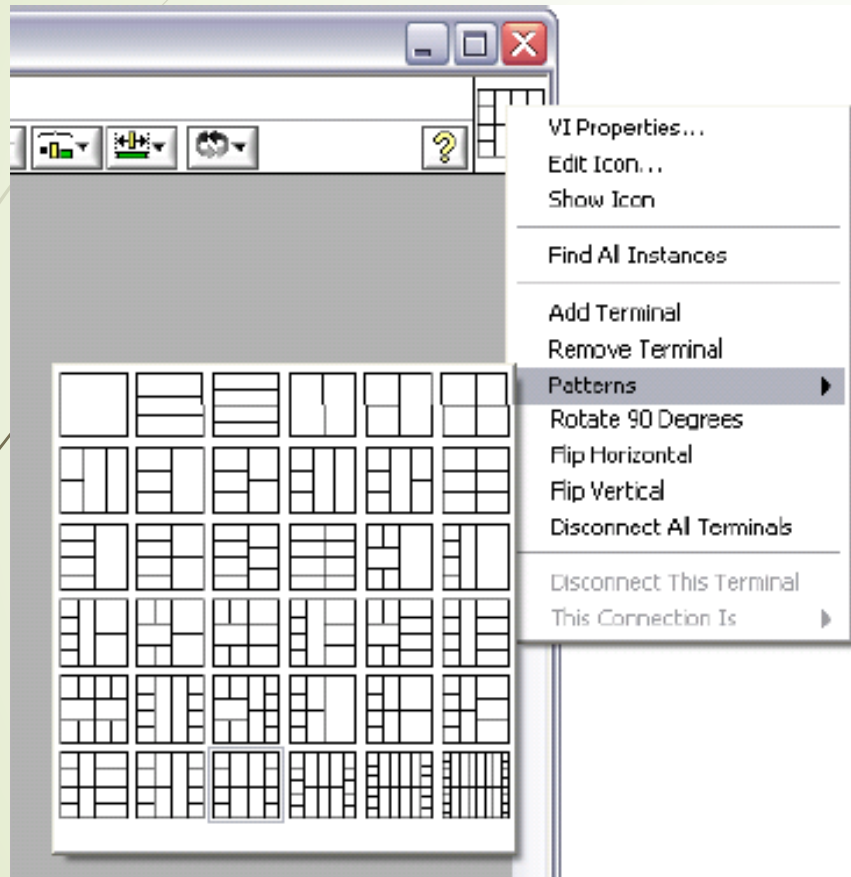
Romain Marion – Janvier 2019

Sous-VI : Définition

Function Code	Calling Program Code
<pre>function average (in1, in2, out) { out = (in1 + in2)/2.0; }</pre>	<pre>main { average (point1, point2, pointavg) }</pre>
SubVI Block Diagram	Calling VI Block Diagram
	

- C'est l'équivalent d'une fonction
- Il est appelé dans le VI principal
- On doit lui définir des entrées et des sorties

Sous-VI : Entrées et sorties



4

Exemple guidé N°9

Les tableaux

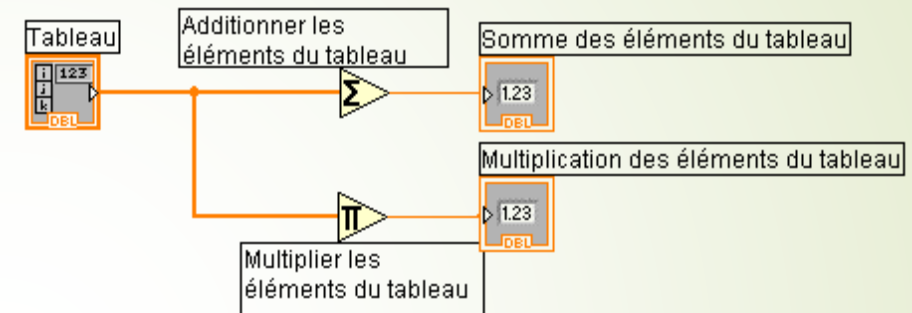
- C'est une structure de données qui permet de « manipuler » simultanément plusieurs données élémentaires du même type.

Indice	Variable de typeréel
0	1.65
1	3.85
...	
n-1	8,56

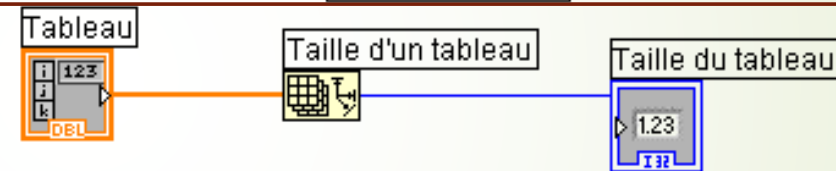
- La première ligne a un indice 0.

Opérations de base

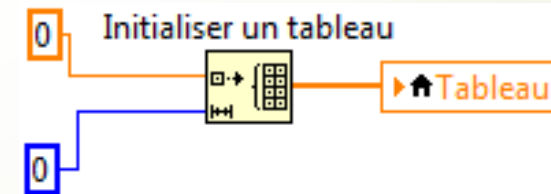
- a) Somme (multiplication)
de tous les éléments :



- b) Taille d'un tableau :



- c) Initialisation d'un tableau :

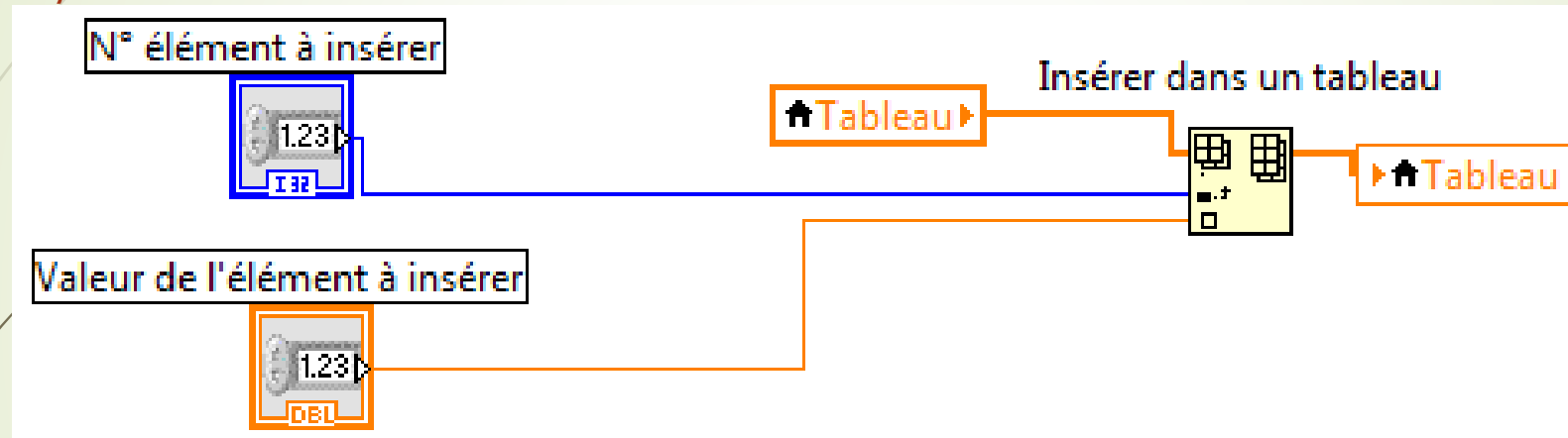


- d) Tri d'un tableau :

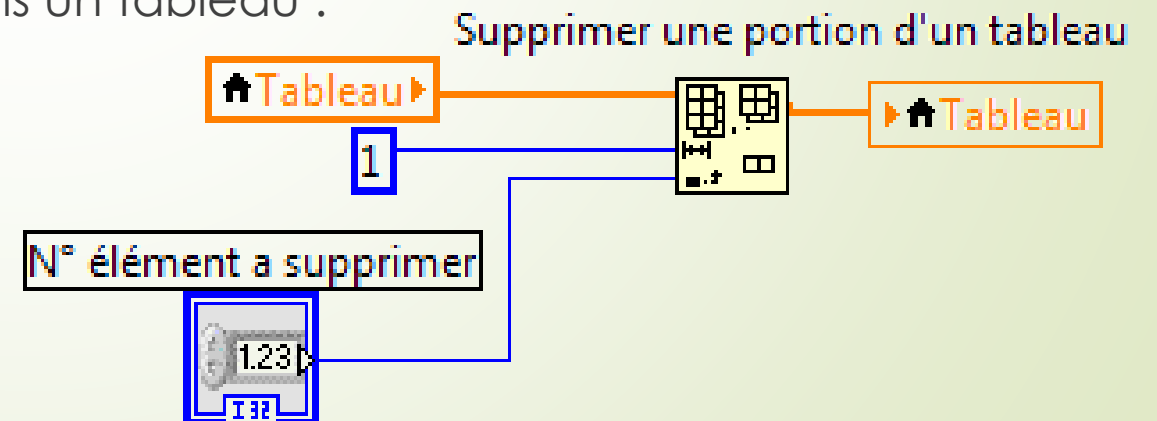


Opérations de base

e) Insertion d'un élément dans un tableau :

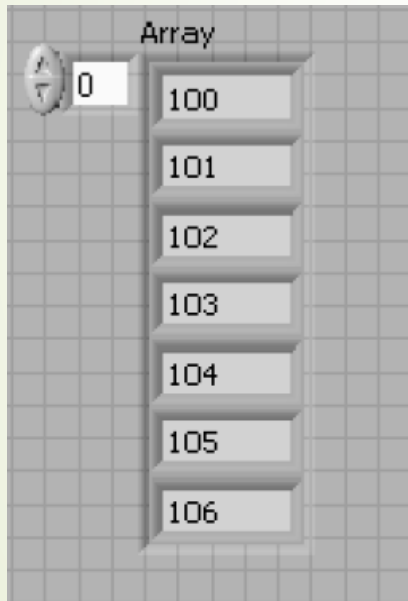


f) Suppression d'un élément dans un tableau :



Dimensions

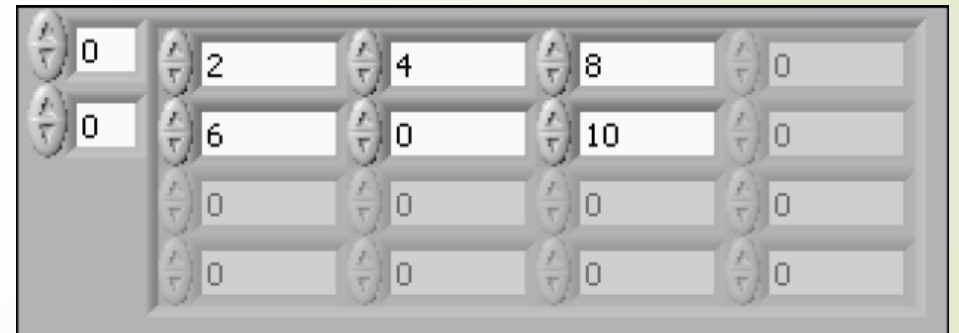
dimension 1



A 1D array visualization. It features a vertical column of 7 rectangular cells. The top cell is labeled 'Array' and contains the value '0'. The subsequent 6 cells contain the values 100, 101, 102, 103, 104, and 105, respectively. The entire array is set against a light gray grid background.

Array
0
100
101
102
103
104
105

dimension 2



A 2D array visualization. It consists of a grid of 10 rectangular cells arranged in 2 rows and 5 columns. Each cell contains a numerical value. The first row contains the values 0, 2, 4, 8, and 0. The second row contains the values 0, 6, 0, 10, and 0. Each cell has a small circular icon with a triangle inside to its left. The entire array is set against a light gray grid background.

0	2	4	8	0
0	6	0	10	0

⁹ Exemples guidés N°10 et 11