

`int a[5] = { 8, 2, 9, 5, 6 } ;`

0	1	2	3	4
8	2	9	5	6

`int a[5] = { 1, 2, 3, 4, 5, 6 } ;` (x) error  
cannot have more initial value than the array size

`int a[5] = { 8, 2, 9 } ;`

0	1	2	3	4
8	2	9		

`int a[100] = { 0 } ;`

0	1	2	...	99
			...	

`int a[] = { 8, 2, 9 } ;`

0	1	2
8	2	9

Array size is optional when the initial values are provided.

`int a[5];`

→ Array size is constant

`#define max;`

`int a[max];`

→

`int Max = 5;`

`int a[max];` (x)

→ size can not be variable