syntax for declaring a single dimensional array

datatype array\_name[size];

eg:

int a[10];

Memory Allocation

0 1 2 3 4 5 6 7 8 9

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |

index ranges from 0 to n-1, where n is the number of elements in the array