**ARRAY**

* An array is an indexed sequence of components.
* The components of an array are all of the same type.
* Typically, the array occupies a sequential storage location.
* Array is a static data structure, that is, the length of the array is determined when the array is created, and cannot be changed.
* Each component of the array has a fixed, unique indexed.
* Indicates range from a lower bound to an upper bound.
* Any component of the array can be inspected or updated by using its index.
* This is an efficient operation: O (1) = constant time

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 4 | 10 | 15 | 5 | 8 | 11 | 20 | 9 | 30 |
| A [0] | A [1] | A [2] | A [3] | A [4] | A [5] | A [6] | A [7] | A [8] | A [9] |