

# EXPLAIN ARRAY (IN DETAIL)



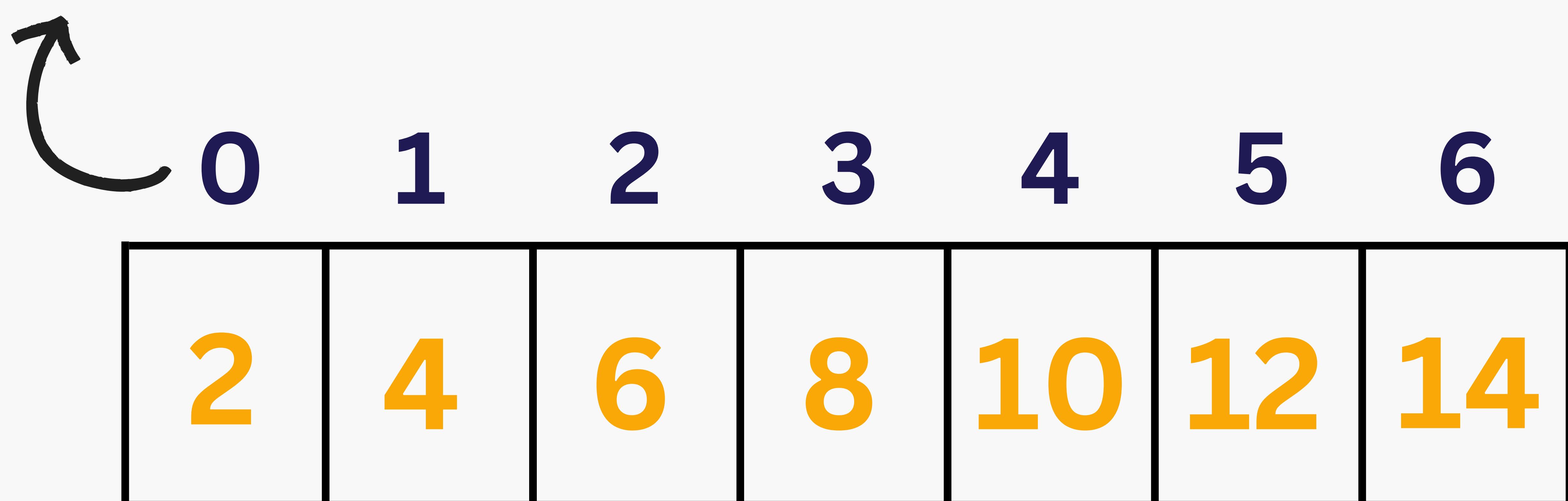
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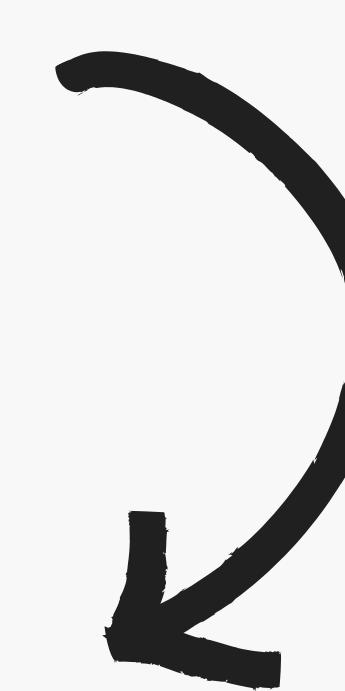
# ARRAY

An array is an ordered collection of items stored at continuous memory locations.

**Index Value**



50 51 52 53 54 55 56



**Memory Location**

Array store data items that have similar  
data types



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# ADVANTAGES OF ARRAY

- Simple to create and use.
- The elements can be accessed randomly by using the index number.
- Store elements of the same data types.



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@javascriptwithhassan



# DISADVANTAGES OF ARRAY

- Wastage of memory because arrays are fixed in size.
- Expensive to change.
- It is not possible to increase the size of the array, once you had to declare the array.



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# APPLICATIONS OF ARRAY

- Basic Spreadsheets.
- CPU Scheduling.
- Performing matrix operations.
- Implement other data structures like Stacks, Queues, Heaps, etc.



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