1. LINEAR SEARCH ALGORITHM

- **STEP 1.** First, read the search element in the array.
- **STEP 2.** Set an integer i = 0 and repeat steps 3 to 4 till i reaches the end of the array.
- **STEP 3.** Match the key with arr[i].
- STEP 4. If the key matches, return the index. Otherwise, increment i by 1

2. BINARY SEARCH ALGORITHM

<u>STEP 1.</u> Set the low index to the first element of the array and the high index to the last element.

STEP 2. Set the middle index to the average of the low and high indices.

- If the element at the middle index is the target element, return the middle index.
- Otherwise, based on the value of the key to be found and the value of the middle element, decide the next search space.
- If the target is less than the element at the middle index, set the high index to middle index 1.
- If the target is greater than the element at the middle index, set the low index to middle index + 1.

<u>STEP 3.</u> Perform step 2 repeatedly until the target element is found or the search space is exhausted.