

```

package com.Simpli;
public class binarySearch {

    public static void main(String[] args){

        int[] arr = {3,6,9,12,15};
        int key = 12;
        int arrlength = arr.length;
        binarySearch(arr,0,key,arrlength);
    }

    public static void binarySearch(int[] arr, int start, int key, int length){

        int midValue = (start+length)/2;
        while(start<=length){

            if(arr[midValue]<key){

                start = midValue + 1;
            } else if(arr[midValue]==key){
                System.out.println("Element is found at index :"+midValue);
                break;
            }else {

                length=midValue-1;
            }
            midValue = (start+length)/2;
        }
        if(start>length){

            System.out.println("Element is not found");
        }

    }

}

```

Simpli/binarySearch.java - Eclipse IDE

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