Writing a program in Java implementing the binary search algorithm

package practice4;

public class Binary\_search {

public static void main(String[] args){

int[] arr = {3,6,9,12,15,89,90,78,54};

int key = 78;

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");

}

}

}