```java
public class SortMaster {


    //returns the index position of the first occurence of x in A,
    //if x is not found, return -1
    public int sequentialSearch(int[] A, int x) {
        for(int k=0; k<A.length; k++)
            if (A[k]==x)
                return(k);

        return(-1);
    }


    //returns the index position of the first occurence of x in A,
    //if x is not found, return -1
    public int binarySearch(int[] A, int x) {
        int lo = 0;
        int hi = A.length - 1;
        while (lo <= hi) {
            int mid = lo + (hi - lo) / 2;
            if (x < A[mid]) {
                hi = mid - 1;
                System.out.println("Moved HI to " + hi);
            }
            else if (x > A[mid]) {
                lo = mid + 1;
                System.out.println("Moved LO to " + lo);
            }
            else {
                System.out.println("Found it at " + mid);
                return mid;
            }
        }

        return(-1);
    }


} //end class
```