

LONGEST INCREASING SEQUENCE

Code →

MAIN→

```
public class MainLIS {  
  
    public static void main(String[] args) {  
        int arr[] = {5, 23, 33,64,22,12,69};  
        LIS obj = new LIS();  
        System.out.println("Longest increasing sequence: " + obj.lengthLIS(arr));  
    }  
  
}
```

LIS→

```
public class LIS {  
    int lengthLIS(int arr[]) {  
        int r = 1;  
        int small = arr[0];  
  
        int i = 1;  
        while (i < arr.length) {  
            if (small < arr[i]) {  
                r++;  
                small = arr[i];  
            }  
            i++;  
        }  
        return r;  
    }  
}
```