

Sample runs

Legi: 20952974

LIS.java

```
(base) anqili@Anqis-MBP A1 % java LIS.java
Enter an integer sequence in this format: i1<space>i2<space>...
1 2 4 5 6
The longest increasing subsequence has length 5

(base) anqili@Anqis-MBP A1 % java LIS.java
Enter an integer sequence in this format: i1<space>i2<space>...
5 4 3 2 1
The longest increasing subsequence has length 1

(base) anqili@Anqis-MBP A1 % java LIS.java
Enter an integer sequence in this format: i1<space>i2<space>...
1 4 3 4 2
The longest increasing subsequence has length 3
```

LIS_seq.java

```
(base) anqili@Anqis-MBP A1 % java LIS_seq.java
Enter an integer sequence in this format: i1<space>i2<space>...
1 2 4 5 6
The longest increasing subsequence is 1 2 4 5 6

(base) anqili@Anqis-MBP A1 % java LIS_seq.java
Enter an integer sequence in this format: i1<space>i2<space>...
5 4 3 2 1
The longest increasing subsequence is 1

(base) anqili@Anqis-MBP A1 % java LIS_seq.java
Enter an integer sequence in this format: i1<space>i2<space>...
1 4 3 4 2
The longest increasing subsequence is 1 3 4
```

lcss.sh

```
(base) anqili@Anqis-MBP A1 % cat f1.txt
```

```
a  
b  
c  
d  
e  
d  
e  
c
```

```
(base) anqili@Anqis-MBP A1 % cat f2.txt
```

```
c  
e  
e  
d  
b  
a
```

```
(base) anqili@Anqis-MBP A1 % bash lcsh.sh f1.txt f2.txt
```

```
c  
e  
e
```