

CSN-261 L7 REPORT

Anupam Kumar Singh
18114009
01

Dated: 16/10/2019

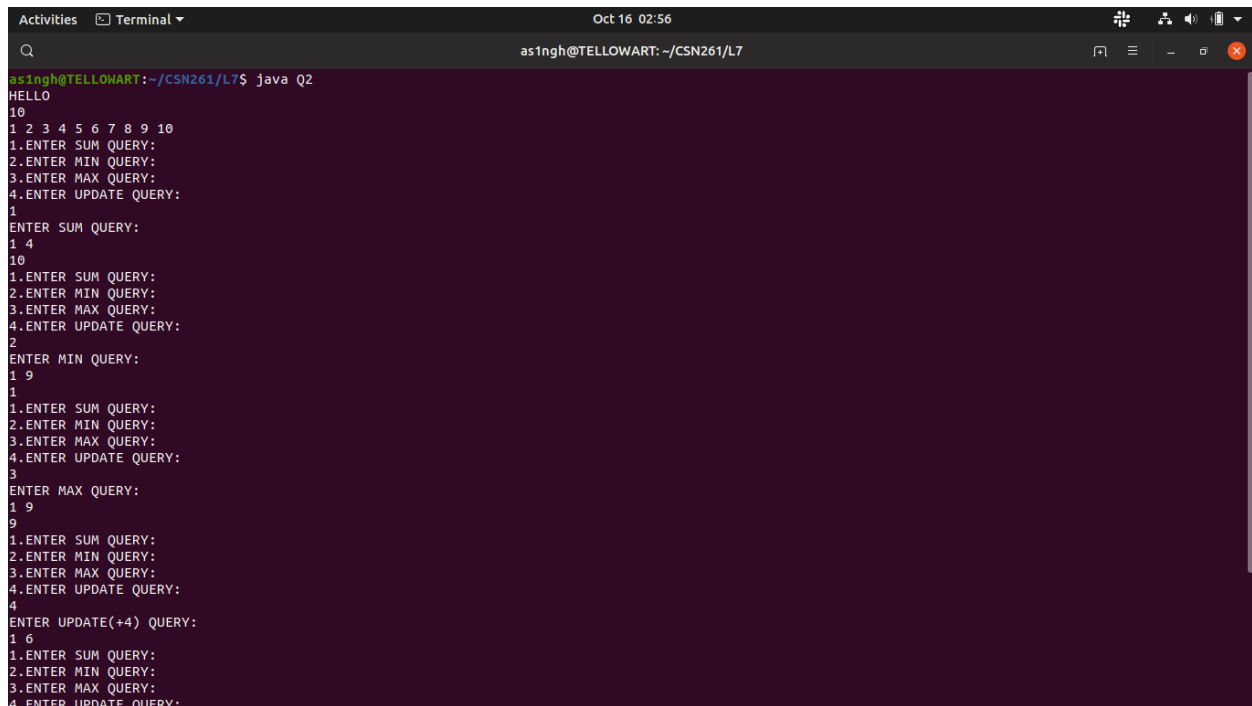
PROBLEM STATEMENT 1:

Objective:

1) Segment tree and perform queries like max, min, and sum of given range. Also update query to update certain segment with 4.

Algo's:

Segment tree, divide and conquer



```
Activities Terminal
Oct 16 02:56
as1ngh@TELOWART: ~/CSN261/L7
as1ngh@TELOWART:~/CSN261/L7$ java Q2
HELLO
10
1 2 3 4 5 6 7 8 9 10
1. ENTER SUM QUERY:
2. ENTER MIN QUERY:
3. ENTER MAX QUERY:
4. ENTER UPDATE QUERY:
1
ENTER SUM QUERY:
1 4
10
1. ENTER SUM QUERY:
2. ENTER MIN QUERY:
3. ENTER MAX QUERY:
4. ENTER UPDATE QUERY:
2
ENTER MIN QUERY:
1 9
1
1. ENTER SUM QUERY:
2. ENTER MIN QUERY:
3. ENTER MAX QUERY:
4. ENTER UPDATE QUERY:
3
ENTER MAX QUERY:
1 9
9
1. ENTER SUM QUERY:
2. ENTER MIN QUERY:
3. ENTER MAX QUERY:
4. ENTER UPDATE QUERY:
4
ENTER UPDATE(+4) QUERY:
1 6
1. ENTER SUM QUERY:
2. ENTER MIN QUERY:
3. ENTER MAX QUERY:
4. ENTER UPDATE QUERY:
```

PROBLEM STATEMENT 2:

Objective:

1) Find the set of points lie inside the overlapping region (rectangular) of the two given orthogonal polygons.

Algo's Discuss:

K-D tree, polygons, geometry