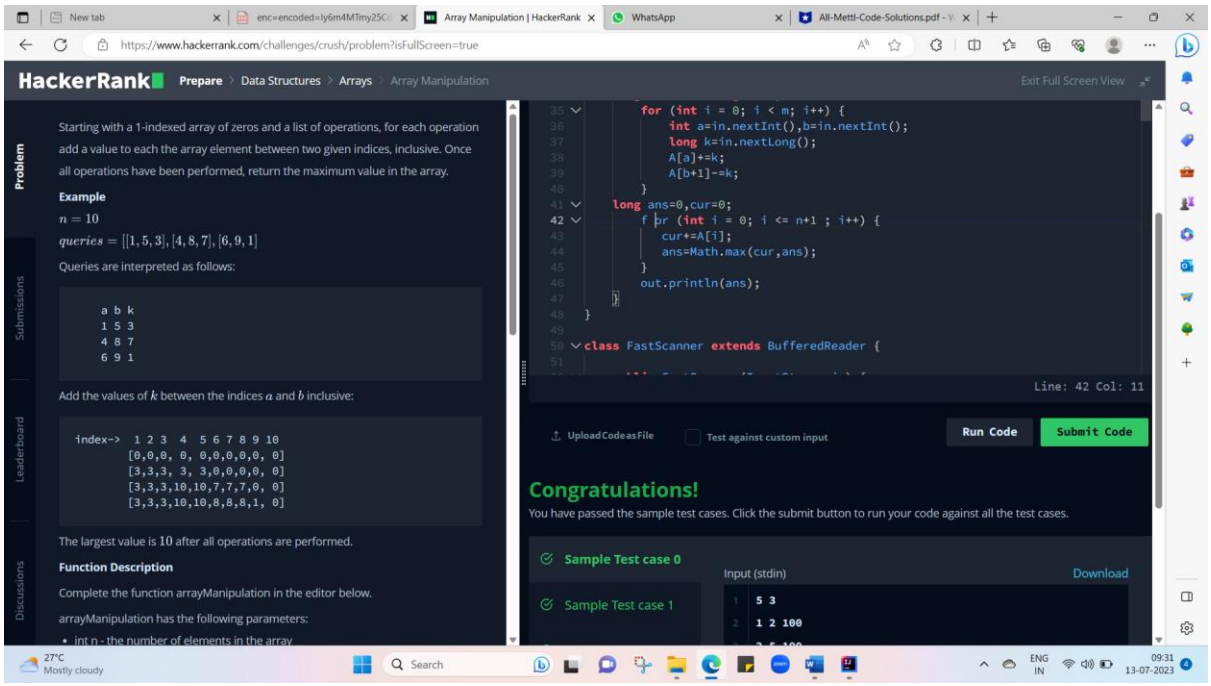
DAY 4 HackerRank solved problem

Array Manipulation



code:

```
import java.io.InputStreamReader;

import java.io.IOException;

import java.util.InputMismatchException;

import java.io.PrintStream;

import java.io.BufferedReader;

import java.io.OutputStream;

import java.io.PrintWriter;

import java.io.Reader;
```

```
import java.io.Writer;
import java.io.InputStream;

/**
 * Built using CHelper plug-in
 * Actual solution is at the top
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 */
public class Solution {
    public static void main(String[] args) {
            InputStream inputStream = System.in;
            OutputStream outputStream = System.out;
            FastScanner in = new FastScanner(inputStream);
            FastPrinter out = new FastPrinter(outputStream);
            Task2 solver = new Task2();
            solver.solve(1, in, out);
            out.close();
    }
}

class Task2 {
   ////////////////////////////////////////////////////////
```

```
    public void solve(int testNumber, FastScanner in, FastPrinter
out) {
    int n=in.nextInt(),m=in.nextInt();
    long[] A= new long[n+2];
        for (int i = 0; i < m; i++) {
            int a=in.nextInt(),b=in.nextInt();
            long k=in.nextLong();
            A[a]+=k;
            A[b+1]-=k;
        }
    long ans=0,cur=0;
        for (int i = 0; i <= n+1 ; i++) {
          cur+=A[i];
          ans=Math.max(cur,ans);
        }
        out.println(ans);
    }
}

class FastScanner extends BufferedReader {

    public FastScanner(InputStream is) {
        super(new InputStreamReader(is));
    }
```

```
    public int read() {
        try {
            int ret = super.read();
//          if (isEOF && ret < 0) {
//              throw new InputMismatchException();
//          }
//          isEOF = ret == -1;
            return ret;
        } catch (IOException e) {
            throw new InputMismatchException();
        }
    }

    public String next() {
        StringBuilder sb = new StringBuilder();
        int c = read();
        while (isWhiteSpace(c)) {
            c = read();
        }
        if (c < 0) {
            return null;
        }
        while (c >= 0 && !isWhiteSpace(c)) {
```

```
            sb.appendCodePoint(c);
            c = read();
        }
        return sb.toString();
    }

    static boolean isWhiteSpace(int c) {
        return c >= 0 && c <= 32;
    }

    public int nextInt() {
        int c = read();
        while (isWhiteSpace(c)) {
            c = read();
        }
        int sgn = 1;
        if (c == '-') {
            sgn = -1;
            c = read();
        }
        int ret = 0;
        while (c >= 0 && !isWhiteSpace(c)) {
            if (c < '0' || c > '9') {
```

```
            throw new NumberFormatException("digit expected " +
(char) c
                    + " found");
            }
            ret = ret * 10 + c - '0';
            c = read();
        }
        return ret * sgn;
    }

    public long nextLong() {
        return Long.parseLong(next());
    }

    public String readLine() {
        try {
            return super.readLine();
        } catch (IOException e) {
            return null;
        }
    }

    }
```

```
class FastPrinter extends PrintWriter {

    public FastPrinter(OutputStream out) {
        super(out);
    }

    public FastPrinter(Writer out) {
        super(out);
    }


}
```