```java
import java.io.BufferedReader;

import java.io.InputStreamReader;

import java.io.IOException;


class Day87 {

    public static void main(String[] args) throws IOException {

        BufferedReader bu = new BufferedReader(new InputStreamReader(System.in));

        StringBuilder sb = new StringBuilder();

        int t = Integer.parseInt(bu.readLine());


        while (t-- > 0) {

            int n = Integer.parseInt(bu.readLine());

            String s[] = bu.readLine().split(" ");

            int a[] = new int[n];


            for (int i = 0; i < n; i++) {

                a[i] = Integer.parseInt(s[i]);

            }


            long ans = a[0];

            int min = a[0];


            for (int i = 1; i < n; i++) {

                ans += min;

                min = Math.min(min, a[i]);

            }


            ans -= a[n - 1];

            ans = Math.max(ans, 0);

            sb.append(ans).append("\n");

        }
```

```java
        System.out.print(sb);
    }
}
```