/*Day 87 coding Statement :

There are N stones in a pond, each having a value Ai? written on it.
Frog is at stone 1 and wants to reach stone N. The frog can jump from a stone i to any stone j(j>i).
Let d be the length of subarray (i.e. j−i+1), then the energy required for the jump is (d⋅Ai?)−Aj?.
Find the minimum non-negative amount of energy required by the frog to reach the N-th stone.

Note: It is possible that the total amount of energy required is negative, in that case, you should print the minimum non-negative value (i.e. 0).*/

```
import java.util.*;
import java.lang.*;
import java.io.*;
class Main
{
 public static void main (String[] args) throws java.lang.Exception
 {
 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],i;
 for(i=0;i<n;i++) a[i]=Integer.parseInt(s[i]);
 long ans=a[0]; int min=a[0];
 for(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+"\n");
 }
 System.out.print(sb);
 }
}
```