```java
import java.util.*;
import java.lang.*;
import java.io.*;
class Main
{
    public static void main (String[] args) throws java.lang.Exception

    {
        BufferedReader b=new BufferedReader(new InputStreamReader(System.in));
        StringBuilder sb=new StringBuilder();
        int t=Integer.parseInt(b.readLine());
        while(t-->0)
        {
            int n=Integer.parseInt(b.readLine());
            String s[]=b.readLine().split(" ");
            int arr[]=new int[n];
            for(int i=0;i<n;i++)
            arr[i]=Integer.parseInt(s[i]);
            long ans=arr[0];
            int min=arr[0];
            for(int i=1;i<n;i++)
            {
                ans+=min;
                min=Math.min(min,arr[i]);
            }
            ans-=arr[n-1];
            ans=Math.max(ans,0);
            sb.append(ans+"\n");
        }
        System.out.print(sb);
    }
}
```