

7839 Alice in the Digital World

After returning from the Wonderland, Alice needs to improve her scientific skills in this current digital world. Alice decides to participate the ACM-ICPC Asia Nha Trang Regional Contest 2016 to evaluate her actual performance. Her most favorite problem in the contest is following.

Given an array of positive integers $A = a_1, a_2, \dots, a_n$, a subarray A_i^j of A is a sequence of continuous elements in A , i.e., $A_i^j = a_i, a_{i+1}, \dots, a_j$ (where $1 \leq i \leq j \leq n$). The weight of A_i^j is the sum of all its elements, i.e. $\sum_{k=i}^j a_k$.

Given an integer m , your task is to find the maximum weight subarray of A that contains only one m as the minimum element. You can assume that A always contains at least one element with value m .

Input

The input consists of several datasets. The first line of the input contains the number of datasets, which is a positive number and is not greater than 20. The following lines describe the datasets.

Each dataset is described by the following lines:

- The first line contains 2 positive integers n and m ($n \leq 10^5$; $m \leq 2^6$).
- The second line contains n positive integers, each with value at most 2^6 .

Output

For each dataset, write out on one line the found maximum weight.

Sample Input

```
1
6 2
1 3 2 6 2 4
```

Sample Output

```
12
```