

Bounded Sum Subarray

Given an array $A_1 A_2 \dots A_N$, find the largest length subarray with sum at most M , and the start position of that subarray. If there are multiple subarrays with maximum possible length, choose the one with smallest start point among subarrays with maximum length and sum up to M . It is guaranteed that there is atleast one valid subarray with sum $\leq M$.

Input Format

- First line contains two integers N and M
- Second line contains N space-separated integers, i -th integer denoting A_i

Output Format

Print two integers, the maximum possible length L and the smallest starting index i such that the subarray of length L starting at i has sum at most M

Constraints

- $1 \leq N \leq 5 \cdot 10^5$
- $M \leq 10^9$
- $-10^6 \leq A_i \leq 10^6$

Subtasks

- **Subtask 1 (10 points):** $1 \leq N \leq 1000$
- **Subtask 2 (30 points):** $1 \leq N \leq 10^5$
- **Subtask 3 (30 points):** $A_i \geq 0$ for all i
- **Subtask 4 (30 points):** original constraints.

Sample Input

```
15 666
101 42 -132 17 404 -13 55 222 89 11 -66 91 -9 21 4
```

Sample Output

```
10 2
```