## Hotels Along the Croatian Coast

There are N hotels along the beautiful Adriatic coast. Each hotel has its value in Euros.
Sroljo has won M Euros on the lottery. Now he wants to buy a sequence of consecutive hotels, such that the sum of the values of these consecutive hotels is as great as possible - but not greater than M.

You are to calculate this greatest possible total value.

## Input

In the first line of the input there are integers $N$ and $M\left(1 \leq N \leq 300000,1 \leq M<2^{31}\right)$.
In the next line there are N natural numbers less than $10^{6}$, representing the hotel values in the order they lie along the coast.

## Output

Print the required number (it will be greater than 0 in all of the test data).

## Example

| input | input |
| :--- | :--- |
| 512 | 49 |
| 21345 |  |
| output |  |
| 12 | 7356 |
| output |  |

