# Frequent Flier <br> Problem ID: frequentflier <br> Time limit: 2 seconds 

An airline is offering a strange new rewards program to offer free flights to travelers.
The program can be parameterized with two integers $m$ and $k$. Within any $m$ consecutive months, a traveler must pay for at least $k$ of those flights (if there are fewer than $k$ flights in that interval, all of those flights must be paid for). Other flights within that interval are free. Note that this condition needs to be true for all $m$-month intervals, including all of the ones that start before your first flight.

You have a schedule of the number of flights you'll take over the next many months. You want to know the minimum number of flights you'll need to pay for.

## Input

The first line of input contains three integers $n$, $m\left(1 \leq n, m \leq 2 \times 10^{5}\right)$ and $k\left(1 \leq k \leq 10^{9}\right)$, where $n$ is the number of consecutive months ahead that you have flights planned, and $m$ and $k$ are the parameters of the airline's rewards program.

Each of the next $n$ lines contains an integer $f\left(1 \leq f \leq 10^{9}\right)$, which is the number of flights you plan to take during that month.

## Output

Output a single integer, which is the minimum number of planned flights that you must pay for.
Sample Input 1

| 8 | 3 | 2 |
| :--- | :--- | :--- |
| 3 |  | 8 |
| 1 |  |  |
| 4 |  |  |
| 1 |  |  |
| 5 |  |  |
| 9 |  |  |
| 2 | 6 |  |

