## Turn Off the Lights

There are $n$ bulbs in a straight line, numbered from 0 to $n-1$. Each bulb $i$ has a button associated with it, and there is a cost, $c_{i}$, for pressing this button. When some button $i$ is pressed, all the bulbs at a distance $\leq k$ from bulb $i$ will be toggled(off->on, on->off).

Given $n, k$, and the costs for each button, find and print the minimum cost of turning off all $n$ bulbs if they're all on initially.

## Input Format

The first line contains two space-separated integers describing the respective values of $n$ and $k$.
The second line contains $n$ space-separated integers describing the respective costs of each bulb (i.e., $\left.c_{0}, c_{1}, \ldots, c_{n-1}\right)$.

## Constraints

- $3 \leq n \leq 10^{4}$
- $0 \leq k \leq 1000$
- $0 \leq c_{i} \leq 10^{9}$


## Output Format

Print a long integer denoting the minimum cost of turning off all $n$ bulbs.

## Sample Input

```
31
1 1 1
```


## Sample Output

1

## Explanation

If we press the middle switch, the middle bulb and the $k=1$ closest adjacent bulbs (i.e., the first and third) will turn off. Because all bulbs will be off in one button press, this cost is minimal. Thus, we print 1 as our answer.

