

# Lamp

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**Time Limit:** 1.0s   **Memory Limit:** 256M

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Middle Earth Technical University has a river that passes through it. There are some park benches near the river. It becomes too dark at night and the university wants to build a lamp that can lighten the benches around it.

The lamp will light the square it's built on and the squares within the range of it. The lamp's range is  $K$ . Can you find the maximum number of park benches that can be lightened?

You have one lamp. You can put your lamp on any square you want.

## Input

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First-line contains the integers  $N$  (number of squares) and  $K$  (the range of the lamp).

The second line contains an array of  $N$  nonnegative integers.  $A_i$  correspond to the number of benches in  $i^{th}$  square.

- $1 \leq N \leq 10^5$
- $0 \leq K \leq 10^5$
- $1 \leq A_i \leq 10^5$

## Output

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Print the maximum number of benches that can be lightened.

## Examples

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Input:

```
6 2
1 2 3 4 5 6
```

Output:

```
20
```

Input:

```
7 1
4 3 2 1 3 4 5
```

Output:

```
12
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