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**

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**

Print the maximum number of benches that can be lightened.

**Examples**

Input:

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

Output:

```
20
```

Input:
<table>
<thead>
<tr>
<th>7</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>

Output:

| 12 |