

# Problem: GIFTS

Time Limit: 1.0 seconds

Memory Limit: 32 MB

## Problem Description

The Great Cat has recently been crowned King of Catville.

To make the Great Cat happy,  $n$  cats have come to the castle and presented a gift each. The gifts are laid down in a straight line on a table, and the Great Cat will walk down the table, taking the gifts. He will only walk down the table once and only move in one direction (what a lazy cat). Once he takes a gift, he will be busy inspecting it and miss the chance to take the next  $a$  gifts.

Each gift is worth a certain value  $v$ , and being a very greedy cat, the Great Cat would like to obtain the maximum value after collecting the gifts. To be able to mock him for his poor gift selection skills (how rude), you have decided to find out the maximum value of the gifts that the Great Cat could have gotten.

## Input Format

The first line consists of two integers,  $n$  and  $a$ , representing the number of gifts and how many gifts he will miss upon taking a gift respectively.

On the following line will be  $n$  integers, separated by spaces, with  $v_i$  value representing the value of the  $i$ th gift.

## Output Format

Print out a single integer, the maximum value of gifts the Great Cat could have gotten.

## Limits

Subtask	Score	Additional bounds
1	10	$1 \leq N \leq 100$
2	15	$1 \leq N \leq 1000, a \leq 10$
3	30	$1 \leq N \leq 10000$
4	45	$1 \leq N \leq 1000000$
All	-	$0 \leq a < N, 1 \leq v \leq 1000$

## Sample Input

```
5 1
3 5 6 1 3
```

## Sample Output

```
12
```

## Explanation

The Great Cat can take gift 1, 3 and 5, missing the chance to take gift 2 and 4, which would have a total value of  $3+6+3 = 12$ .