

# rabbitjoke

## 1 Problem Description

Whiterabbit wants to take a break from handling the affairs of Bunnyland, and thus decides to return to his room to make really dumb problem statements such as the one you are reading right now.

In order to make his unfunny problem statements funnier, Whiterabbit wants to insert a number of jokes into his problem statement. He has prepared  $N$  jokes to put in the problem statement, each one rated a humour value  $H_i$  (kindly provided by the great Orange). The total humour value of his final problem statement is the sum of all the humour values of the jokes added.

However, adding too many jokes makes the problem statement hard to read, and thus Whiterabbit wants to add at most  $K$  jokes to the problem statement. Help Whiterabbit find the maximum humour value of his final problem statement.

## 2 Input Format

The input format is as follows:

- The first line of input will contain 2 spaced integers,  $N$  and  $K$  respectively.
- The next line will contain  $N$  spaced integers, with the  $i^{th}$  one representing  $H_i$ .

## 3 Output Format

The output format is as follows:

- The first and only line of output should contain 1 integer, the maximum humour value of Whiterabbit's problem statement.

## 4 Subtasks

Subtask	Score	$N$	$K$
1	100	$1 \leq N \leq 2000000$	$1 \leq K \leq N$
For all subtasks: $1 \leq N \leq 2000000, 1 \leq K \leq N, -10^9 \leq H_i \leq -1$			