Suffix Sum

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

Given two numbers N and M, and an array A of N numbers. Calculate the sum of the last M numbers.

Note: solve this problem using recursion.

Input

First line contains two numbers N and M ($1 \leq M \leq N \leq 10^5$).

Second line contains N numbers ($-10^9 \leq A_i \leq 10^9$).

Output

Print the sum of the last M numbers of the given array.

Example

standard input	standard output
5 3 1 8 2 10 3	15