Coding Arena

<C*deVita/>
the TCS Coding Contest

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Problem : Book Fair

It is the Annual Book Fair. There are thousands of book stalls and this year the organizers introduced a new scheme. In every stall either you can collect a coupon bearing a number but then you must skip next k stalls or you can simply go to the next stall without collecting the coupon. At the end, your prize is free books worth the sum of the numbers on the coupon you have collected.

Input Format:

The first line has two positive integers, N (the number of stalls) and k (the number of stalls to skip if you collect a coupon).

The next N lines have 1 positive integer each, which is the value of the coupons you collect from the corresponding stall.

Output Format:

The output is one number that is the maximum value of the sum of coupons collected according to the rules.

Constraints:

N<50
Number on the coupon <1000

Example 1

Input
10,2
4
5
8
7
5
4
3
4
6
5

Output
19

Explanation
N =10, k=2

The highest value is obtained if you pick the stall numbers 1,4,7,10, giving a value of 4+7+3+5=19.

Example 2

Input
10,2
50
70
40
50
90
70
60
40
70
50

Output
230

Explanation
There are 10 stalls, and k=2. The coupon values are as shown. If you visit stalls 2, 5 and 9, you get a total value of 230, which is the maximum possible. The output is 230.

Note:

Please do not use package and namespace in your code. For object oriented languages your code should be written in one class.

Note:

Participants submitting solutions in C language should not use functions from <conio.h> / <process.h> as these files do not exist in gcc

Note:

For C and C++, return type of main() function should be int.

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Submit Answer

I , **YOKESH** confirm that the answer submitted is my own.
I would like to provide attribution to the following sources.

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