

Lazy Chanu

Chanu is a lazy boy, one day he came across a line containing N points, he wants to reach the last point of the line.

Being lazy he can only make jumps of length upto K (i.e if he is at any point i he can jump to any point from $i+1$ to $i+K$).

The line is strange, upon landing on any point ' i ' on the line Chanu gets A_i dirty stains on his clothes. Help Chanu cross the line such that he gets minimum number of stains on his clothes.

*Initially he is at the first point of the line

Input:

First line contains number of test cases T .

For each test-case:

First line contains 2 numbers N and K .

Next line contains N values denoting A_i .

Output:

Single integer denoting the answer.

Constraints:

$1 \leq T \leq 20$

$1 \leq K \leq N \leq 10^5$

$1 \leq A_i \leq 10^9$

Time Limit : 1 sec

Memory Limit : 256 MB

Sample Input:

1

7 2

1 5 2 8 7 9 1

Sample Output:

11