

## A. Roman and Browser

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

This morning, Roman woke up and opened the browser with  $n$  opened tabs numbered from 1 to  $n$ . There are two kinds of tabs: those with the information required for the test and those with social network sites. Roman decided that there are too many tabs open so he wants to close some of them.

He decided to accomplish this by closing every  $k$ -th ( $2 \leq k \leq n - 1$ ) tab. Only then he will decide whether he wants to study for the test or to chat on the social networks. Formally, Roman will choose one tab (let its number be  $b$ ) and then close all tabs with numbers  $c = b + i \cdot k$  that satisfy the following condition:  $1 \leq c \leq n$  and  $i$  is an integer (it may be positive, negative or zero).

For example, if  $k = 3$ ,  $n = 14$  and Roman chooses  $b = 8$ , then he will close tabs with numbers 2, 5, 8, 11 and 14.

After closing the tabs Roman will calculate the amount of remaining tabs with the information for the test (let's denote it  $e$ ) and the amount of remaining social network tabs ( $s$ ). Help Roman to calculate the maximal absolute value of the difference of those values  $|e - s|$  so that it would be easy to decide what to do next.

### Input

The first line contains two integers  $n$  and  $k$  ( $2 \leq k < n \leq 100$ ) — the amount of tabs opened currently and the distance between the tabs closed.

The second line consists of  $n$  integers, each of them equal either to 1 or to  $-1$ . The  $i$ -th integer denotes the type of the  $i$ -th tab: if it is equal to 1, this tab contains information for the test, and if it is equal to  $-1$ , it's a social network tab.

### Output

Output a single integer — the maximum absolute difference between the amounts of remaining tabs of different types  $|e - s|$ .

### Examples

input	Copy
4 2 1 1 -1 1	
output	Copy
2	

input	Copy
14 3 -1 1 -1 -1 1 -1 -1 1 -1 -1 1 -1 -1 1	
output	Copy
9	

### Note

In the first example we can choose  $b = 1$  or  $b = 3$ . We will delete then one tab of each type and the remaining tabs are then all contain test information. Thus,  $e = 2$  and  $s = 0$  and  $|e - s| = 2$ .

In the second example, on the contrary, we can leave opened only tabs that have social networks opened in them.

### Codeforces Round #532 (Div. 2)

Contest is running
01:58:00
Contestant

### → Submit?

Language: 

GNU G++17 7.3.0

Choose file: 

Seleccionar archivo

 Ningú...nado

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

Submit

### → Score table

	Score
<a href="#">Problem A</a>	498
<a href="#">Problem B</a>	996
<a href="#">Problem C</a>	1494
<a href="#">Problem D</a>	1992
<a href="#">Problem E</a>	1992
<a href="#">Problem F</a>	2490
Successful hack	100
Unsuccessful hack	-50
Unsuccessful submission	-50
Resubmission	-50

\* If you solve problem on 00:01 from the first attempt

