SEASON 6 - ROUND FOUR - 100 points

For a sequence of $\mathbf{N}$ integers $-\mathrm{a}_{0}, \mathrm{a}_{1}, \ldots, \mathrm{a}_{n-1}$ we define the $\mathbf{k}$-area of a number to be to be the sum of the number with index $\mathbf{i}$, the $\mathbf{k}$ numbers to its left and the $\mathbf{k}$ numbers to its right. Write a program, which for a given sequence of numbers and number $\mathbf{k}$ outputs the index of the number with the largest $k$-area. If there is more than one largest area, output the smallest index.

Note: if before or after a given index there are less than $k$ numbers, we only take into account their sum when calculating the $k$-area (i.e. we can imagine that the missing numbers are all 0 ).

## Input

The first row of the file karea. in contains two positive integers $\mathbf{N}$ and $\mathbf{k}$ - the length of the sequence and the size of the area respectively.
$\mathbf{N}$ integers follow - the numbers of the sequence.

## Output

In the output file karea. out print the position of the number with the largest $\mathbf{k}$-area. In case there is more than one such are, print the smallest index. (Indexing begins at 0 ).

## Constraints

```
3\leqN\leq10'
3 < k}\leq5*10\mp@subsup{0}{}{5
-1000 \leq a i < 1000
```

Time limit: 0.5 sec
Memory limit: $\mathbf{2 5 6}$ MB

## Example test

| Input (karea.in) | Output (karea. out) |
| :--- | :--- |
| 51 | 0 |
| $-109-10-5-9$ | 5 |
| 64 |  |
| $-610-9-5-63$ |  |

## Clarifications

Example 1: The values of the 1-areas in each position are as follows:
$0:-10+9=-1$
1: $-10+9+(-10)=-11$

## K-area

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2: $9+(-10)+(-5)=-6$
3: $-10+(-5)+(-9)=-24$
4: $-5+(-9)=-14$
The largest value is -1 at index 0 .

