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Java Dequeue

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In computer science, a double-ended queue (dequeue, often abbreviated to deque, pronounced deck) is an abstract data type that generalizes a queue, for which elements can be added to or removed from either the front (head) or back (tail).

Deque interfaces can be implemented using various types of collections such as `LinkedList` or `ArrayDeque` classes. For example, deque can be declared as:

```
Deque deque = new LinkedList<>();  
or  
Deque deque = new ArrayDeque<>();
```

You can find more details about Deque [here](#).

In this problem, you are given N integers. You need to find the maximum number of unique integers among all the possible contiguous subarrays of size M .

Note: Time limit is **3** second for this problem.

Input Format

The first line of input contains two integers N and M : representing the total number of integers and the size of the subarray, respectively. The next line contains N space separated integers.

Constraints

$$1 \leq N \leq 100000$$

$$1 \leq M \leq 100000$$

$$M \leq N$$

The numbers in the array will range between $[0, 10000000]$.

Output Format

Print the *maximum* number of unique integers among all possible contiguous subarrays of size M .

Sample Input

```
6 3  
5 3 5 2 3 2
```

Sample Output

```
3
```

Explanation

In the sample testcase, there are 4 subarrays of contiguous numbers.

$s1 = \langle 5, 3, 5 \rangle$ - Has **2** unique numbers.

$s2 = \langle 3, 5, 2 \rangle$ - Has **3** unique numbers.

$s3 = \langle 5, 2, 3 \rangle$ - Has **3** unique numbers.

$s4 = \langle 2, 3, 2 \rangle$ - Has **2** unique numbers.

In these subarrays, there are **2, 3, 3, 2** unique numbers, respectively. The maximum amount of unique numbers among all possible contiguous subarrays is **3**.

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Max Score: 20



Difficulty: Medium

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Java 7  

```
16 import java.util.*;
17 public class test {
18     public static void main(String[] args) {
19         Scanner in = new Scanner(System.in);
20         Deque deque = new ArrayDeque<>();
21         int n = in.nextInt();
22         int m = in.nextInt();
23
24         for (int i = 0; i < n; i++) {
25             int num = in.nextInt();
26
27         }
28     }
29 }
30
```

Line: 1 Col: 1

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