# D. Once Again...

time limit per test: 1 second memory limit per test: 256 megabytes

input: standard input output: standard output

You are given an array of positive integers  $a_1, a_2, ..., a_{n \times T}$  of length  $n \times T$ . We know that for any i > n it is true that  $a_i = a_{i-n}$ . Find the length of the longest non-decreasing sequence of the given array.

## Input

The first line contains two space-separated integers: n, T ( $1 \le n \le 100$ ,  $1 \le T \le 10^7$ ). The second line contains n space-separated integers  $a_1, a_2, ..., a_n$  ( $1 \le a_i \le 300$ ).

# **Output**

Print a single number — the length of a sought sequence.

#### **Examples**

input	
4 3 3 1 4 2	
output	
5	

### **Note**

The array given in the sample looks like that: 3, **1**, 4, **2**, **3**, 1, **4**, 2, 3, 1, **4**, 2. The elements in bold form the largest non-decreasing subsequence.