# **ASTU-ICPC**

### **Monotonous Monotones**

#### **Description**

Given a sequence of numbers, a monotonically increasing subsequence is a subsequence in which the numbers are strictly increasing. In this sequence:

Both of these subsequences are monotonically increasing:

1 2 4 7 11 14 and 1 2 3 8 14

#### **The Problem:**

Given a sequence, find the length of the longest monotonically increasing subsequence.

#### **The Input:**

One line input with the sequence number

#### **The Output:**

Print the message: 'n' the longest monotonically increasing subsequence.

Then, print a blank line.

## Sample Input (3 different scenarios):

129473118146#

12345#

54321#

## Sample Output:

6

5

1