Initially on a notepad only one character 'A' is present. You can perform two operations on this notepad for each step:

1. Copy All: You can copy all the characters present on the notepad (partial copy is not allowed).
2. Paste: You can paste the characters which are copied **last time**.

Given a number n. You have to get **exactly** n 'A' on the notepad by performing the minimum number of steps permitted. Output the minimum number of steps to get n 'A'.

**Example 1:**

**Input:** 3

**Output:** 3

**Explanation:**

Intitally, we have one character 'A'.

In step 1, we use **Copy All** operation.

In step 2, we use **Paste** operation to get 'AA'.

In step 3, we use **Paste** operation to get 'AAA'.

**Note:**

1. The n will be in the range [1, 1000].