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Time limit: *1000 ms*
Memory limit: *256 MB*

Finding the perfect balance is something sought after by many people and in many ways... sometimes even in strings. We'll call a string unbalanced if it has even length and its two halves are equal. Find a string of length N, consisting only of characters `y` and `Y`, such that it has as few distinct unbalanced **substrings** as possible.

Your score per test will be computed as $(1 + \frac{1}{10})^{-K}$, where K is e^{F-O}, O is the optimal number of distinct unbalanced substrings and F is the number of distinct unbalanced substrings you have obtained.

Perfectly balanced as all things should be.

Standard input

The first line contains an integer N.

Standard output

Print the answer on the first line.

Constraints and notes

- $1 \leq N \leq 300$
- By e we mean Euler's number, which is ≈ 2.718282

Input	Output
4	yyyY