

Favorite Phrase

Input file: **standard input**
Output file: **standard output**
Time limit: 1 second
Memory limit: 256 megabytes

As per tradition, we are collecting your favorite phrases!

However, this time, there are some rules. Christian particularly likes phrases that have exactly n space-free substrings — substrings that don't contain the space character. For example, the phrase “Hey yo” has 9 space-free substrings: Hey, He, ey, H, e, y, as well as yo, y, and o.

If one space-free substring appears multiple times, it is counted that many times. In other words, we count the total number of space-free substrings, not the number of unique space-free substrings.

Given a positive integer n , output a phrase with exactly n space-free substrings.

Input

The input contains a single integer n ($1 \leq n \leq 100$) — the number of space-free substrings in your phrase.

Output

Output a phrase with exactly n space-free substrings on one line. You may use lowercase and uppercase English letters and spaces. **Your phrase may have at most 10 words.** The words in your phrase don't have to be actual English words.

Examples

standard input	standard output
9	Hey yo
21	Proof by AC