

E. Special Triangle

time limit per test: 1 second
 memory limit per test: 256 megabytes
 input: standard input
 output: standard output

Some day, there is an artist called **Mohamed** wanted to draw special triangle consists of N rows on the wall in a fashionable way.

He wanted to do by using only **Uppercase English Letter** as shown in the sample. Can you help him?

Note: if you reach to the last letter 'Z' start from the first letter 'A' again to complete the special triangle.

Input

Only one integer number N ($1 \leq N \leq 10^3$).

Output

Print the special triangle.

Examples

input	Copy
4	
output	Copy
<pre> A ABC ABCDE ABCDEFG</pre>	
input	Copy
9	
output	Copy
<pre> A ABC ABCDE ABCDEFG ABCDEFGH ABCDEFGH ABCDEFGHI ABCDEFGHIJ ABCDEFGHIJK ABCDEFGHIJKL ABCDEFGHIJKLM ABCDEFGHIJKLMN ABCDEFGHIJKLMNO ABCDEFGHIJKLMNO</pre>	

ICPC Assiut Advanced Newcomers 2023

Private

Participant



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Finished

Practice



→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

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Language: [GNU G++20 11.2.0 \(64 bit, w\)](#)