

Problem A

Print

Time limit: 1s

Memory Limit: 75KB

This problem is very simple. Just observe the sample test cases and figure out the pattern.

PS: If you don't know how to do this problem, you might want to see the 2nd page. It contains a hint that you **can use** to ease this problem. **DON'T SEE THE HINT, unless you're already frustrated.**

Input

The input consist an integer N ($1 \leq N \leq 10$), that is probably used for the output.

Output

See the output below

Sample Input 1
1
Sample Output 1
a

Sample Input 2
2
Sample Output 2
aba

Sample Input 3
3
Sample Output 3
abacaba

Sample Input 4

5
Sample Output 3
abacabadabacabaeabacabadabacaba

Note: Always print a newline (\n) at the end of the answer.

HINT: You **have to** use **recursive** for this problem.