# B. 3-palindrome

time limit per test: 1 second memory limit per test: 256 megabytes

input: standard input output: standard output

In the beginning of the new year Keivan decided to reverse his name. He doesn't like palindromes, so he changed Naviek to Navick.

He is too selfish, so for a given n he wants to obtain a string of n characters, each of which is either 'a', 'b' or 'c', with no palindromes of length 3 appearing in the string as a substring. For example, the strings "abc" and "abca" suit him, while the string "aba" doesn't. He also want the number of letters 'c' in his string to be as little as possible.

### Input

The first line contains single integer n ( $1 \le n \le 2 \cdot 10^5$ ) — the length of the string.

#### **Output**

Print the string that satisfies all the constraints.

If there are multiple answers, print any of them.

#### **Examples**

input	
2	
output	
aa	

input			
3			
output bba			
bba			

## Note

A palindrome is a sequence of characters which reads the same backward and forward.