

Binary Recursion

Bayu is learning about base 2 numbers in his spare time. He is currently trying to figure out how to convert decimal numbers into binary. Help Bayu check his work by making a program using ONLY RECURSION to find the binary representation of the decimal in question!

Input Format

n as the decimal that is going to be converted into binary

Constraints

$0 \leq n \leq 10^{15}$

Output Format

binary representation of the number

Sample Input 0

52

Sample Output 0

110100