import java.io.BufferedReader;

import java.io.InputStreamReader;

import java.util.ArrayDeque;

import java.util.Deque;

public class Main {

public static void main(String[] args) throws Exception{

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

int N = Integer.parseInt(br.readLine());

Deque<Integer> q = new ArrayDeque<>();

for(int i=1; i<=N; i++){

q.offer(i);

}

int cnt = 1;

while(true) {

if(q.size() == 1)

break;

if(cnt % 2 == 0) {

q.offer(q.peek());

}

q.poll();

cnt++;

}

System.out.println(q.peek());

}

}