## A. Perfect Permutation

time limit per test
2 seconds
memory limit per test
256 megabytes
input
standard input
output
standard output

A *permutation* is a sequence of integers  $p_1, p_2, ..., p_n$ , consisting of n distinct positive integers, each of them doesn't exceed n. Let's denote the i-th element of permutation p as  $p_i$ . We'll call number n the size of permutation  $p_1, p_2, ..., p_n$ .

Nickolas adores permutations. He likes some permutations more than the others. He calls such permutations perfect. A *perfect* permutation is such permutation p that for any i ( $1 \le i \le n$ ) (n is the permutation size) the following equations hold  $p_{p_i} = i$  and  $p_i \ne i$ . Nickolas asks you to print any perfect permutation of size n for the given n.

## Input

A single line contains a single integer n ( $1 \le n \le 100$ ) — the permutation size.

## Output

If a perfect permutation of size n doesn't exist, print a single integer -1. Otherwise print n distinct integers from 1 to n,  $p_1$ ,  $p_2$ , ...,  $p_n$  — permutation p, that is perfect. Separate printed numbers by whitespaces.

## Examples input 1 output -1 input 2 output 21 input 4 output 4 output 2 1 3