

## 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  $p_1, p_2, \dots, p_n$ , 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  $p_1, p_2, \dots, p_n$ .

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  $i$  ( $1 \leq i \leq n$ ) ( $n$  is the permutation size) the following equations hold  $p_{p_i} = i$  and  $p_i \neq i$ . Nickolas asks you to print any perfect permutation of size  $n$  for the given  $n$ .

### Input

A single line contains a single integer  $n$  ( $1 \leq n \leq 100$ ) — 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  $n$ ,  $p_1, p_2, \dots, p_n$  — permutation  $p$ , that is perfect. Separate printed numbers by whitespaces.

### Examples

<b>input</b>
1
<b>output</b>
-1
<b>input</b>
2
<b>output</b>
2 1
<b>input</b>
4
<b>output</b>
2 1 4 3

### → Attention

Package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then value 800 ms will be displayed and used to determine the verdict.

### Codeforces Round #144 (Div. 2)

Finished

### → Virtual participation

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Start virtual contest

### → Problem tags

implementation math

No tag edit access

### → Contest materials

- Announcement 
- Tutorial 