

B. Hungry Sequence

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

lahub and lahubina went to a date at a luxury restaurant. Everything went fine until paying for the food. Instead of money, the waiter wants lahub to write a Hungry sequence consisting of n integers.

A sequence a_1, a_2, \dots, a_n , consisting of n integers, is *Hungry* if and only if:

- Its elements are in increasing order. That is an inequality $a_i < a_j$ holds for any two indices $i, j (i < j)$.
- For any two indices i and $j (i < j)$, a_j must **not** be divisible by a_i .

lahub is in trouble, so he asks you for help. Find a Hungry sequence with n elements.

Input

The input contains a single integer: $n (1 \leq n \leq 10^5)$.

Output

Output a line that contains n space-separated integers $a_1 a_2, \dots, a_n (1 \leq a_i \leq 10^7)$, representing a possible Hungry sequence. Note, that each a_j must not be greater than 10000000 (10^7) and less than 1.

If there are multiple solutions you can output any one.

Examples

| |
|---------------|
| input |
| 3 |
| output |
| 2 9 15 |

| |
|----------------|
| input |
| 5 |
| output |
| 11 14 20 27 31 |

→ 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 #191 (Div. 2)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.



Start virtual contest

→ Problem tags

math

No tag edit access

→ Contest materials

- Announcement 
- Tutorial #1 
- Tutorial #2 