CODEFORCES β
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HOME   CONTESTS   GYM   PROBLEMSET   GROUPS   RATING   API   8VC VENTURECUP 🏆   SECTIONS

PROBLEMS   SUBMIT   STATUS   STANDINGS   CUSTOM TEST

A. Hulk

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Dr. Bruce Banner hates his enemies (like others don't). As we all know, he can barely talk when he turns into the incredible Hulk. That's why he asked you to help him to express his feelings.

Hulk likes the Inception so much, and like that his feelings are complicated. They have n layers. The first layer is hate, second one is love, third one is hate and so on...

For example if $n = 1$, then his feeling is "I hate it" or if $n = 2$ it's "I hate that I love it", and if $n = 3$ it's "I hate that I love that I hate it" and so on.

Please help Dr. Banner.

Input

The only line of the input contains a single integer n ($1 \leq n \leq 100$) — the number of layers of love and hate.

Output

Print Dr.Banner's feeling in one line.

Examples

input
1
output
I hate it

input
2
output
I hate that I love it

input
3
output
I hate that I love that I hate it

Codeforces Round #366 (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**

implementation

No tag edit access