## 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 nlayers. 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 ( $1 \le n \le 100$ ) — the number of layers of love and hate.

## Output

Print Dr.Banner's feeling in one line.

# **Examples**

#### input

Copy

1

#### output

Copy

I hate it

#### input

Copy

2

#### output

Copy

I hate that I love it

## input

Сору

3

## output

Сору

I hate that I love that I hate it