#codefor15

Challenge 6.1: Dr. Banner

Dr. Bruce Banner hates his enemies. 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 Constraints:

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 Constraint:

Print Dr.Banner's feeling in one line.

Examples:

Input 1:

Output 1.
I hate it
Output 2:
I hate that I love it
Output 3:
I hate that I love that I hate it

Output 1: