
Repetition

Jojo got a punishment from his teacher because he is naughty. He needs to write N times of "I will become a good boy.". It's very troublesome. To make it easier, he will create a program that can do his task. He will skip every composite line number to reduce the usage of paper (He needs to print in paper). Help him!

Format Input

The first line of a input file is an integer T, then followed by T numbers of N indicating the number of times Jojo need to write.

Format Output

Please refer to the description for the output format.

Constraints

$1 \leq T \leq 10$

$1 \leq N \leq 1000$

Sample Input	Sample Output
2 4 2	Case #1: I will become a good boy. I will become a good boy. Case #2: I will become a good boy.

Note

Composite number is a non-prime number.