

Big Add and Multiply

Input file: **standard input**
Output file: **standard output**
Time limit: 1 second
Memory limit: 256 megabytes

Given a number N . Print $N + 9999$ and $N * 9999$.

Input

Only one line contains a number N ($1 \leq N \leq 10^{10000}$).

Output

Print two lines contain $N + 9999$ and $N * 9999$ respectively.

Examples

standard input	standard output
1	10000 9999
10	10009 99990