

## D. On Sum of Fractions

time limit per test: 2 seconds  
memory limit per test: 256 megabytes  
input: standard input  
output: standard output

Let's assume that

- $v(n)$  is the largest prime number, that does not exceed  $n$ ;
- $u(n)$  is the smallest prime number strictly greater than  $n$ .

Find .

### Input

The first line contains integer  $t$  ( $1 \leq t \leq 500$ ) — the number of testcases.

Each of the following  $t$  lines of the input contains integer  $n$  ( $2 \leq n \leq 10^9$ ).

### Output

Print  $t$  lines: the  $i$ -th of them must contain the answer to the  $i$ -th test as an irreducible fraction " $p/q$ ", where  $p, q$  are integers,  $q > 0$ .

### Examples

input
2 2 3
output
1/6 7/30