# **Problem 4**

Piyush is a very inteligent chap, he has a facination for maths and is never convinced without proof of anything. Last time I told him that sqrt(2) can be written as an expansion of a series as sqrt(2) = 1 + 1/(2 + 1/(2 + 1/(2 + ...))) = 1.414213...

Now I need to prove this to him. Being a fan of finding all solutions I have descided to use a program to find all possible fractions that can be formed using this series with depth = N and show it to piyush, I need your help to do this.

#### example:

N=1:1+1/2=3/2

N=2:1+1/(2+1/2)=7/5

N=3:1+1/(2+1/(2+1/2))=17/12

and so on...

Given a value of N(<=40) print the fraction in lowest form. Lowest form means that GCD(numerator, denominator) = 1

#### Input

line 1: T(number of test cases)

line 2 to T+1: vaue of N for each test case

## **Output**

numerator/denominator in the lowest form for each test case

### **Example**

#### Input:

4

1

2

3

**Output:** 

3/2

7/5

17/12

41/29