Problem A. Coats

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

Mary is a kindergarten teacher. She loves teaching kids and play with them but the only thing bothers her sometimes is that they are so careless and playful and would forget their stuff or would even take each others' things by mistake. Especially when the bus arrives to pick them up there so in rush that a lot of times mistakenly take each others' coat home. Parents always complain about this and even sometime blame her for not being organized. Now that she tries to check every student's coat before they get to the bus she noticed that sometimes all of them are wearing the wrong coat. She is curious to know what is the possibility of all the coats wrong over all possible cases.

Input

The first line of the input contains an integer, t , indicating the number of test cases. For each test case, one line appears, that contains a number n that is number of students, $1 \le n \le 12$.

Output

For each test case, the output should contain a single line with the number representing the number of favorable cases (i.e., the number of cases where all students take a wrong coat), followed by a bar, '/' , and followed by a number representing the total number of possible cases.

Example

standard input	standard output
3	1/2
2	2/6
3	9/24
4	