Several casinos in the Atlantic City are contemplating a new game to attract gamblers. In this game, a ball is rolled randomly into a roulette wheel partitioned into $N$ slots (labelled $1,2, \ldots, N$ ). The label of the slot in which the ball lands is the result of the roll. The ball is then removed and another ball is rolled. A total of m balls are rolled.

The players make bets on the number of distinct numbers ( $K$ ) appearing during the $m$ rolls. The casinos wish to set the payout ratios for winning bets, such that the casinos will have a slight advantage
 over the gamblers. In particular, they need to know the probability of a bet being the winning bet. They have hired the Altantic City Mathematicians (ACM) to help them with this problem: given values of $N, M$ and $K(1 \leq N, M, K \leq 10)$, compute the probability that $K$ distinct values will appear when $M$ balls are rolled into the roulette wheel with $N$ slots. It is assumed that each roll is independent of the others, and each of the $N$ results are equally likely for each roll.

## Input

The input starts with an integer $T$ - the number of test cases $(T \leq 1000)$. $T$ cases follow on each subsequent line, each of them containing 3 integers $-N, M$ and $K$.

## Output

For each case, print the probability as a reduced fraction, following the format of the sample output. That is, print the probability in the form ' $A / B$ ' where $A$ and $B$ have no common factors. If the probability is ' 0 ' or ' 1 ', just print the integer. $A$ and $B$ are guaranteed to fit into a signed 32 -bit integer.

## Sample Input

## 4

312
252
353
462

## Sample Output

0
15/16
50/81
93/1024

