## Teaming up for the competition

Since the Iron Pony competition was such fun last year, the ponies have decided to host a similar event this year, but this time it would be in teams. When each pony arrives at the event, they receive a number between 1 and $10^{\wedge} 18$. It is possible that some ponies receive the same number. Once everypony arrives, Miss Mayor will announce a number $X$ and how to determine which team a pony is on - the pony takes their given number and looks at the result modulo X . That is their team number.

Dr. Whooves is at the event with a group, and he was wondering about the numbers $X$ that would let his entire group be on the same team. Dr. Whooves likes big numbers, so he is going to suggest to Miss Mayor the number X which is the largest number that would let his entire group be on the same team.

Your goal is to determine what number Dr. Whooves suggested to Miss Mayor. But because the number might be really big, if there is a valid $X$ larger than $10^{\wedge} 18$, just print "I can't count that high".

## Input

The input will contain one line with a number T , the number of test cases in the file.
On the next T lines, one for each of the cases. The format of the case is "Case \#i: N a1 a2 ... aN" where $N$ is the number of ponies in Dr. Whooves's group, and each a $j$ is the number given to a pony in his group.

## Output

There will be $T$ lines in your output, one for each of the test cases in the input. The output format for case i is "Case \#i: X " where X is the number that Dr. Whooves suggests to Miss Mayor, unless X is too large, and then you print "I can't count that high" [see sample output]

## Example

Input:
2
Case \#1: 3178928440
Case \#2: 11000000000000000000

## Output:

Case \#1: 2
Case \#2: I can't count that high

## Limits

$1<=N$ <= $1000000\left(10^{\wedge} 6\right)$

## Warning: Large input files

