"As a special bonus, if they order by midnight, what would they receive? Colin: They'd receive it earlier than if they'd ordered it later. Songs of the Butcher

Colin and Ryan had a party. They baked $C$ cookies and invited $G$ guests. Each guest ate $Q$ cookies, and $R$ cookies were left $(R<Q)$.

## Input

The first line of input gives the number of cases, $N . N$ test cases follow. Each one is a line containing $C$ and $R$ (at most 2000000000).

## Output

For each test case, output one line containing 'Case \#x:' followed by $Q$ - the number of cookies each guest ate. If there are multiple answers, print them in increasing order, separated by spaces. Do not print trailing spaces. Print a ' 0 ' in the case when $R=C$.

## Sample Input

4
100
132
30098
1000997

## Sample Output

Case \#1: 12510
Case \#2: 11
Case \#3: 101202
Case \#4:

