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## Countdown

New Year's Eve is still 2 months away, but as the one appointed to run the countdown, Bibi wants to finish the task as soon as possible. Bibi wants to make a program to count down from  $N$  to 1. To make it more interesting, she replaces some special numbers with "X SECONDS TILL NEW YEAR!!". The special numbers are 5, 10, 30, 60, and the starting number. Help Bibi to make the program.

### Format Input

The first line will be an integer  $T$ , the number of test cases.  
Each test case will contain an integer  $N$ , the starting number.

### Format Output

Print "Case #X:" on the first line of each test case. Then print the countdown each on their own line.

### Constraints

$1 \leq T \leq 10$   
 $1 \leq N \leq 10000$

Sample Input	Sample Output
2 10 4	Case #1: 10 SECONDS TILL NEW YEAR!! 9 8 7 6 5 SECONDS TILL NEW YEAR!! 4 3 2 1 Case #2: 4 SECONDS TILL NEW YEAR!! 3 2 1