



## Example

### Input:

6  
1  
59  
60  
395  
3840305  
31104000

### Output:

Case 1: 1 second  
Case 2: 59 seconds  
Case 3: 1 minute  
Case 4: 6 minutes 35 seconds  
Case 5: 1 month 14 days 10 hours 45 minutes 5 seconds  
Case 6: 1 year