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## System Error

Input file:            **standard input**  
Output file:        **standard output**  
Time limit:        1 second  
Memory limit:     256 megabytes

Mahdi , Omar and Fares have a team named System Error ( they won SCPC last year ).They competed in a contest and they were given  $n$  problems numbered form 1 to  $n$  .Mahdi solved the 1st problem, Omar solved the 2nd problem , Fares solved the 3rd problem then Mahdi solved the 4th problem ans so on .. .

Your task is to determine the number of problems solved by each one of them knowing that they solved all the problems .

### Input

Input contains only one line: the number of the problems (  $1 \leq n \leq 10^{18}$  ) .

### Output

Print in one line three space-separated integers : the number of problems solved by Mahdi, the number of problems solved by Omar and the number of problems solved by Fares .

### Example

standard input	standard output
3	1 1 1