

# 1534. Football in Gondor

Time limit: 1.0 second

Memory limit: 64 MB

Gondor Football Championship is in full swing. Unfortunately, Gandalf missed the beginning of the championship (he had to visit the Mines of Moria because a sleeping dragon was found there). Upon his return, he learned from the omnipresent hobbits that his favorite team Dinamo had already scored  $K$  balls and missed  $L$  balls. Help Gandalf to determine the maximal and minimal numbers of points that Dinamo could earn. In Gondor, if a team wins a match, it gets 3 points, for a draw it gets 1 point, and in the case of defeat the team gets 0 points.

## Input

There are three integers in one line separated with a space:  $K$ ,  $L$ , and  $N$ . Here  $K$  is the number of scored balls,  $L$  is the number of missed balls, and  $N$  is the number of matches that have been played by Dinamo ( $0 \leq K, L \leq 10^9$ ,  $1 \leq N \leq 10^9$ ).

## Output

Output the maximal and minimal numbers of points that Dinamo could earn. The numbers must be separated with a space.

## Samples

input	output
3 2 2	4 3
3 1 2	6 3
3 0 4	10 6
3 0 1	3 3

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**Problem Source:** VIII USU Open Personal Contest (March 3, 2007)