# TLE '17 Contest 4 P1 - Riding the Curve

**Time limit:** 2.0s **Memory limit:** 256M

You have just recently written a mathematics exam. Your professor, Prof. Snew, is very nice and likes to adjust the marks so that his students' grades are higher.

The exam is initially out of M marks. Prof. Snew does the following to calculate a student's new mark:

Suppose the raw mark is X. Then, add K marks to the raw mark, and make the exam out of N marks. That is, the final mark is  $\frac{X+K}{N}$ .

You now wonder to yourself, what is the minimum raw exam mark required to pass (at least 59.5%) after adjustment?



A beauty in mathematics.

### **Input Specification**

The first line of input will contain three integers, M ( $1 \le M \le 1000$ ), K ( $-1000 \le K \le 1000$ ), and N ( $1 \le N \le 1000$ ).

### **Output Specification**

Output a single integer between 0 and M, the minimum raw exam mark required to pass. If it is impossible to pass, output have mercy snew instead.

# **Sample Input**

50 32 80

# **Sample Output**

16