Phone Call

Input file:	standard input
Output file:	standard output
Time limit:	1 second
Balloon color:	Red

Some phone usage rate may be described as follows:

- first minute of a call costs ***min1*** cents,
- each minute from the 2nd up to 10th (inclusive) costs ***min2_10*** cents
- each minute after 10th costs ***min11*** cents.

You have ***s*** cents on your account before the call. What is the duration of the longest call (in minutes rounded down to the nearest integer) you can have?

Input

The input consists of a single test case with 4 integers on a single line separated by a single space. The 4 integers are given as listed below in the same order.

- **min1:** $1 \leq \text{min1} \leq 10$.
- **min2_10:** $1 \leq \text{min2\_10} \leq 10$.
- **min11:** $1 \leq \text{min11} \leq 10$.
- **s *(cents)*:** $2 \leq s \leq 500$.

Output

Output an integer the duration of the longest call (in minutes rounded down to the nearest integer) you can have.

Example

Sample Input 1	Sample Output 1
3 1 2 20	14