



Knapsack Light

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

You found two items in a treasure chest! The first item weighs *weight1* and is worth *value1*, and the second item weighs *weight2* and is worth *value2*. What is the total maximum value of the items you can take with you, assuming that your max weight capacity is *maxW* and you can't come back for the items later?

Input

The input consists of a single test case with 5 integers on a single line separated by a single space. The 5 integers are given as listed below in the same order.

- **value1:** $2 \leq \text{value1} \leq 20$.
- **weight1:** $2 \leq \text{weight1} \leq 10$.
- **value2:** $2 \leq \text{value2} \leq 20$.
- **weight2:** $2 \leq \text{weight2} \leq 10$.
- **maxW:** $1 \leq \text{maxW} \leq 20$.

Output

The total maximum value of the items you can take with you.

Example

Sample Input 1	Sample Output 1
10 5 6 4 8	10

Sample Input 2	Sample Output 2
10 5 6 4 9	16