

# Problem B. Easy Linear Programming

**Time limit** 2000 ms

**Mem limit** 1048576 kB

## Problem Statement

We have  $A$  cards, each of which has an integer 1 written on it. Similarly, we also have  $B$  cards with 0s and  $C$  cards with  $-1$ s.

We will pick up  $K$  among these cards. What is the maximum possible sum of the numbers written on the cards chosen?

## Constraints

- All values in input are integers.
- $0 \leq A, B, C$
- $1 \leq K \leq A + B + C \leq 2 \times 10^9$

## Input

Input is given from Standard Input in the following format:

```
A B C K
```

## Output

Print the maximum possible sum of the numbers written on the cards chosen.

### Sample 1

Input	Output
2 1 1 3	2

Consider picking up two cards with 1s and one card with a 0. In this case, the sum of the numbers written on the cards is 2, which is the maximum possible value.

### Sample 2

Input	Output
1 2 3 4	0

### Sample 3

Input	Output
2000000000 0 0 2000000000	2000000000