## Problem 1 – Cakes

AniG loves sweet things, especially cakes. She also loves to spend money.

AniG owns **S** leva and wants to spend as much of them as she can. She also has 3 favorite types of cakes. The first one costs **C1** leva, the second one **C2** leva and the third one **C3** leva. In the shop there are infinite number of cakes but AniG has only **S** leva.

AniG should spend **as much as she can of his money** to buy some cakes. Find the **maximum amount of money** (no more than **S**) that she can spend to buy cakes.

### Input

The input data should be read from the console.

On the first line there will be the number **S**.

On the second, third and fourth line there will be the numbers **C1**, **C2** and **C3**.

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

The output should be printed on the console.

Output the biggest possible amount of coins that Doge can gather when moving only down and right.

### Sample solution code (in JavaScript)

function solve(params) {

var s = params[0], c1 = params[1], c2 = params[2], c3 = params[3];

var answer = 0;

// Your solution here

console.log(answer);

}

### Constraints

* **S** will be between **1** and **7000**, inclusive.
* **C1**, **C2**, **C3** will be between **11** and **7000**
* Allowed working time for your program: **0.1 seconds**. Allowed memory: **16 MB**.

### Examples

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |
| 110  13  15  17 | 110 | 20  11  200  300 | 11 | 110  19  29  39 | 107 |
| 6 cakes with price 13  1 cake with price 15 and  1 cake with price 17 | |  | 1 cake with price 11 | |  | 0 cakes with price 19  1 cake with price 29  2 cakes with price 39 | |

**So much many sugar. Wow.**