

Bovine Bones

Rob Kolstad, 2008

Points: 70

Bessie loves board games and role-playing games so she persuaded Farmer John to drive her to the hobby shop where she purchased three dice for rolling. These fair dice have S_1 , S_2 , and S_3 sides respectively ($2 \leq S_1 \leq 20$; $2 \leq S_2 \leq 20$; $2 \leq S_3 \leq 40$).

Bessie rolls and rolls and rolls trying to figure out which three-dice sum appears most often.

Given the number of sides on each of the three dice, determine which three-dice sum appears most frequently. If more than one sum can appear most frequently, report the smallest such sum.

Input

- Line 1: Three space-separated integers: S_1 , S_2 , and S_3

Output

- Line 1: The smallest integer sum that appears most frequently when the dice are rolled in every possible combination.

Example

Input:

3 2 3

Output:

5

Output details

Here are all the possible outcomes.

1 1 1 -> 3 1 2 1 -> 4 2 1 1 -> 4 2 2 1 -> 5 3 1 1 -> 5 3 2 1 -> 6
1 1 2 -> 4 1 2 2 -> 5 2 1 2 -> 5 2 2 2 -> 6 3 1 2 -> 6 3 2 2 -> 7
1 1 3 -> 5 1 2 3 -> 6 2 1 3 -> 6 2 2 3 -> 7 3 1 3 -> 7 3 2 3 -> 8

Both 5 and 6 appear most frequently (five times each), so 5 is the answer.