"Count of Intersection

In a university, only 3 subjects are taught viz. English, Mathematics, and Science.

You are given 7 integers A, B, C, D, E, F, and G.

A denotes the number of students studying English.- 120

B denotes the number of students studying Maths. -90

C denotes the number of students studying Science. - 70

D denotes the number of students studying English and Science. -40

E denotes the number of students studying Maths and English. -30

F denotes the number of students studying Maths and Science. -50

G denotes the total number of students. -180

You need to find the number of students studying all 3 subjects

Notes

Each student has to at least study either of the three subjects.

Function Description

In the provided code snippet, implement the provided numStudents(...) method using the variables to print a single integer denoting the number of students studying all the three subjects. You can write your code in the space below the phrase “WRITE YOUR LOGIC HERE”.

There will be multiple test cases running so the Input and Output should match exactly as provided.

Input Format

The first and the only line of input contains 7 space-separated integers denoting A, B, C, D, E, F, and G respectively.

Sample Input

25 26 26 11 9 8 52 -- denotes A B C D E F G

Constraints

1<=A,B,C,D,E,F,G<=1000

Output Format

The first and the only line of output should contain a single integer denoting the number of students studying all three subjects.

Sample Output

3

Explanation

For 3 sets X, Y and Z, we know that,

n(X⋂Y⋂Z) = n(A⋃B⋃C)-n(A)-n(B)-n(C)+n(A⋃B)+n(B⋃C)+n(C⋃A)

Substituting the values, we get

n(X⋂Y⋂Z) = 52-25-26-26+11+9+8 = 3"

input -- 120 90 70 40 30 50 180

expected output -20