#### Time limit: 2.0s Memory limit: 256M

You have 3 sequences A, B, and C, each containing 3 integers. A subsequence of C is *valid* if for each  $C_i$  in the subsequence,  $B_i = A_{i-1}$  (indices are taken mod 3, so  $A_0 = A_3$ ).

What is the maximum sum of a valid subsequence of C?

## **Input Specification**

The first row contains  $A_1, A_2, A_3$ , the second row contains  $B_1, B_2, B_3$ , and the third row contains  $C_1, C_2, C_3$ .

 $-10^5 \leq A_i, B_i, C_i \leq 10^5$  for all i.

## **Output Specification**

Output the maximum sum of a valid subsequence of C (The subsequence can be empty, in which case the sum would be 0).

## Sample Input

565		
656		
614		

#### Sample Output

5

# **Explanation for Sample Output**

Since  $B_2 = A_1$  and  $B_3 = A_2$ ,  $C_2$  and  $C_3$  are valid and can be included in the subsequence. However,  $B_1 \neq A_0$ , so  $C_1$  cannot be included in the subsequence. This subsequence has sum 5.