**Day 11: 2D Array**

**Context**  
Given a 6X6 *2D Array*, A:

1 1 1 0 0 0

0 1 0 0 0 0

1 1 1 0 0 0

0 0 0 0 0 0

0 0 0 0 0 0

0 0 0 0 0 0

We define an hourglass in A to be a subset of values with indices falling in this pattern in A's graphical representation:

a b c

d

e f g

There are 16 hourglasses in A, and an *hourglass sum* is the sum of an hourglass' values.

**Task**  
Calculate the hourglass sum for every hourglass in A, then print the *maximum* hourglass sum.

**Input Format**

There are 6 lines of input, where each line contains 6 space-separated integers describing *2D Array* A; every value in A will be in the inclusive range of -9 to 9.

**Constraints**

* -9 < A[i][j] < 9
* 0 < i,j < 5

**Output Format**

Print the largest (maximum) hourglass sum found in A.

**Sample Input**

1 1 1 0 0 0

0 1 0 0 0 0

1 1 1 0 0 0

0 0 2 4 4 0

0 0 0 2 0 0

0 0 1 2 4 0

**Sample Output**

19

**Explanation**

A contains the following hourglasses:

1 1 1 1 1 0 1 0 0 0 0 0

1 0 0 0

1 1 1 1 1 0 1 0 0 0 0 0

0 1 0 1 0 0 0 0 0 0 0 0

1 1 0 0

0 0 2 0 2 4 2 4 4 4 4 0

1 1 1 1 1 0 1 0 0 0 0 0

0 2 4 4

0 0 0 0 0 2 0 2 0 2 0 0

0 0 2 0 2 4 2 4 4 4 4 0

0 0 2 0

0 0 1 0 1 2 1 2 4 2 4 0

The hourglass with the maximum sum (19) is:

2 4 4

2

1 2 4