Hourglass of 2D Array:

import java.io.\*;

import java.util.\*;

public class Solution

{

public static void main(String[] args)

{

int a[][] = new int[6][6];

int maxSum = 0; // maxSum=Integer.MIN\_VALUE;

Scanner scanner = new Scanner(System.in);

{

for(int i = 0; i < 6; i++)

{

for(int j = 0; j < 6; j++)

{

a[i][j] = scanner.nextInt();

if (i > 1 && j > 1)

{

int sum =

a[i][j]

+ a[i][j-1]

+ a[i][j-2]

+ a[i-1][j-1]

+ a[i-2][j]

+ a[i-2][j-1]

+ a[i-2][j-2];

if (sum > maxSum) {maxSum = sum;}

}

}

}

}

System.out.println(maxSum);

}

}

**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**

The hourglass which has the largest sum is:

2 4 4

2

1 2 4

Input (stdin)

* **1 1 1 0 0 0**
* **0 1 0 0 0 0**
* **1 1 1 0 0 0**
* **0 9 2 -4 -4 0**
* **0 0 0 -2 0 0**
* **0 0 -1 -2 -4 0**

Your Output (stdout)

* **13**