```
Given a 6 X 6 2D Array, arr:
111000
010000
111000
000000
000000
000000
An hourglass in A is a subset of values with indices falling in this pattern in arr's graphical
representation:
abc
d
efg
There are 16 hourglasses in arr. An hourglass sum is the sum of an hourglass' values. Calculate the
hourglass sum for every hourglass in arr, then print the maximum hourglass sum. The array will
always be 6 X 6.
Example
arr =
-9 -9 -9 111
0-9 0 4 3 2
-9 -9 -9 123
0 0 8 6 6 0
0 0 0 -2 0 0
0 0 1 2 4 0
The 16 hourglass sums are:
-63, -34, -9, 12,
-10, 0, 28, 23,
-27, -11, -2, 10,
9, 17, 25, 18
The highest hourglass sum is 28 from the hourglass beginning at row 1, column 2:
043
 1
866
```

## **Function Description**

Complete the function *hourglassSum* in the editor below.

hourglassSum has the following parameter(s):

• int arr[6][6]: an array of integers

#### Returns

• int: the maximum hourglass sum

#### **Input Format**

Each of the 6 lines of inputs arr[i] contains 6 space-separated integers. arr[i][j].

#### Constraints

- -9 < arr[i][j] < 9
- 0 < i, j < 5

### **Output Format**

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

## **Sample Input**

111000

010000

111000

002440

000200

001240

# **Sample Output**

19

# **Explanation**

*arr* contains the following hourglasses:

The hourglass with the maximum sum (19) is: