CCSC:MW 2021 Programming Competition

Highest ***I*** sum

An ***I*** in a 6 by 6 array is a subset of values with indices following the ***I*** pattern in the graphical representation of the array (shown below is a 6 by 6 array and ***I*** pattern):

```
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
```

```
a b c
  d
e f g
```

```
1 1 1
  1
1 1 1
```

There are 16 ***I***'s in a 6 by 6 matrix . An ***I*** *sum* is the sum of the values of the indices that form an ***I.*** Calculate the ***I*** sum for every ***I*** in the 6 by 6 matrix, then print the highest (maximum) ***I*** sum. Please consider that the size of the array is fixed to be 6 by 6.

Example

```
-9  -9  -9  1 1 1
 0  -9   0   4 3 2
-9  -9 -9   1 2 3
 0   0   8   6  6 0
 0   0   0  -2  0 0
 0   0   1   2  4  0
```

The ***/*** sums are:

-63, -34, -9, 12,
-10, 0, 28, 23,
-27, -11, -2, 10,
 9, 17, 25, 18

The highest ***/*** sum is 28 from the ***/*** beginning at second row, third column:

0 4 3
  1
8 6 6

Input

input values for the 6 by 6 matrix. Please note the values can only be single digit [-9, 9].

Output

Print the highest (maximum) ***/*** sum.

Example 1

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

The following is the correct output for the input above:

7