C3- S5 PRACTICE

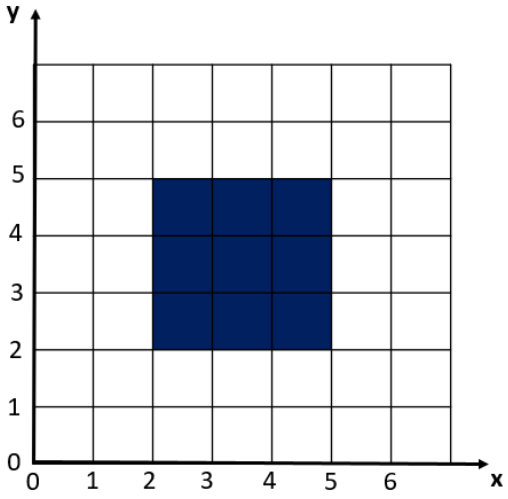
SQUARE CONDITIONS REVERSE

Draw the shape that matches with the boolean expression

EXAMPLE :

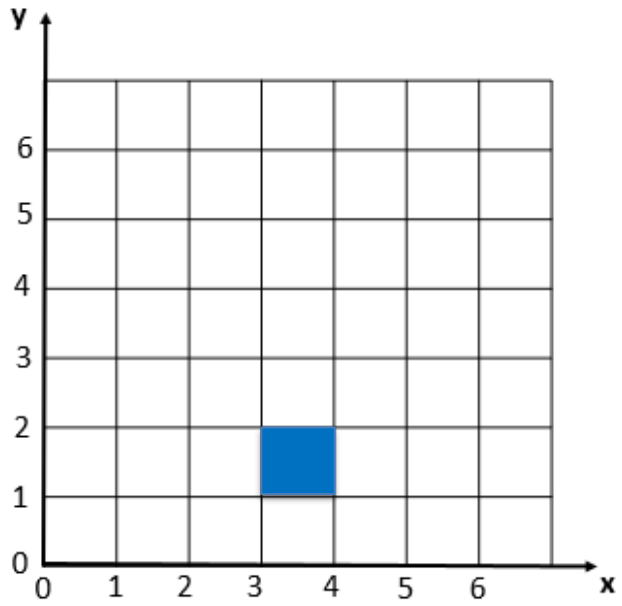
```
(x > 2 and x < 5) and (y > 2 and y < 5)
```

SOLUTION :



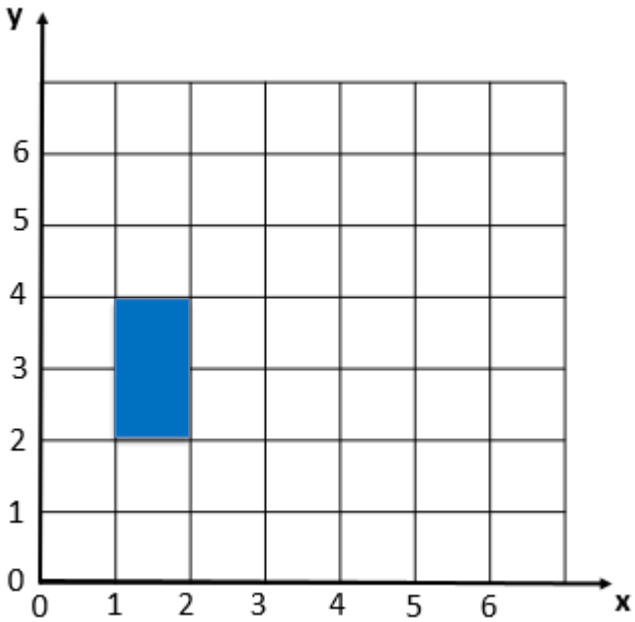
REVERSE-CONDITION 1 :

```
(x > 3 and x < 4) and (y > 1 and y < 2)
```



REVERSE-CONDITION 2 :

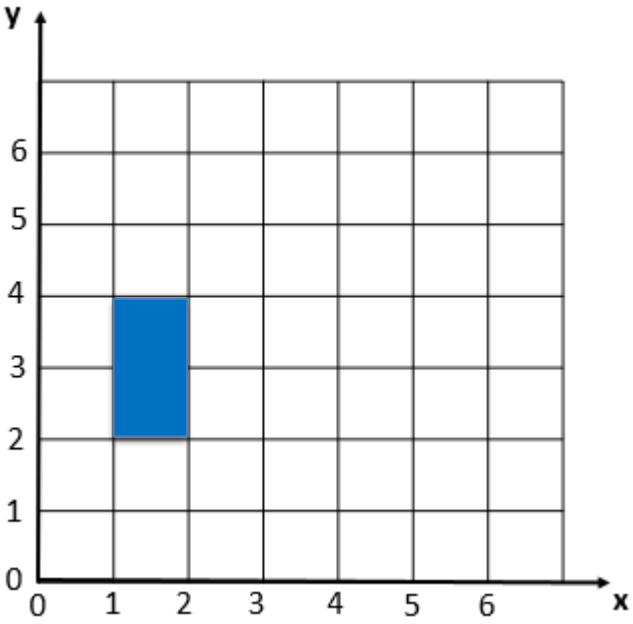
```
(x > 1 and x < 2) and (y < 4 and y > 2)
```



REVERSE-CONDITION 3 :

```
(x > 1 and x < 2) or (y < 4 and y > 2)
```

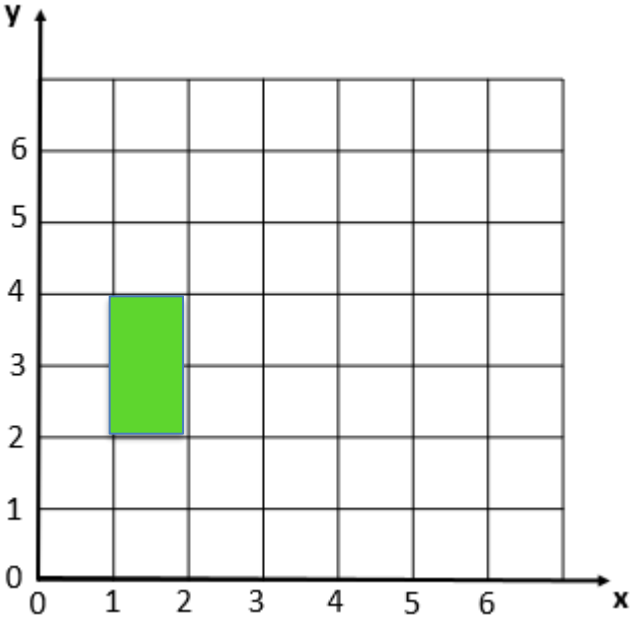
Same than pervious



REVERSE-CONDITION 4 :

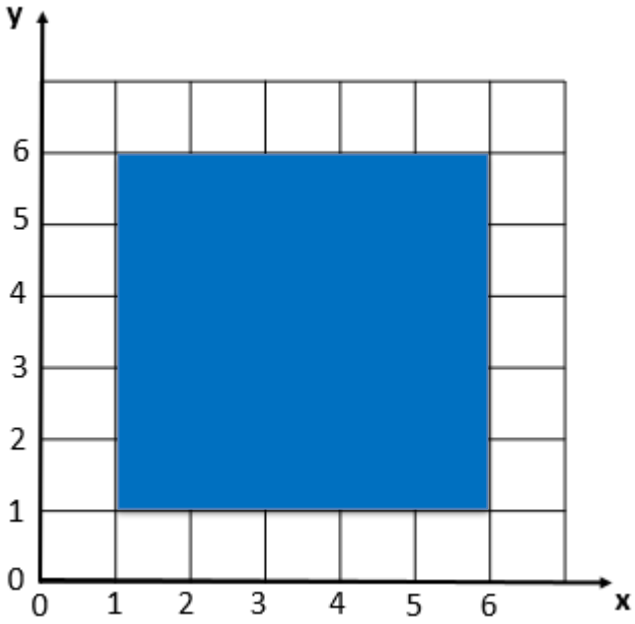
```
((x>1 and x<2) and (y<4 and y>2)) or ((x>1 and x<2) and (y<4 and y>2))
```

Can be simplified.



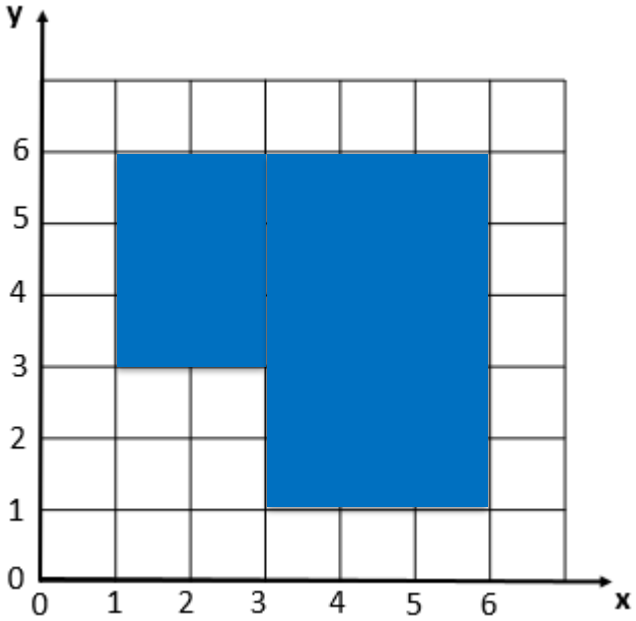
REVERSE-CONDITION 5 :

```
(x>1 and x<6) and (y>1 and y<6) and x>3
```



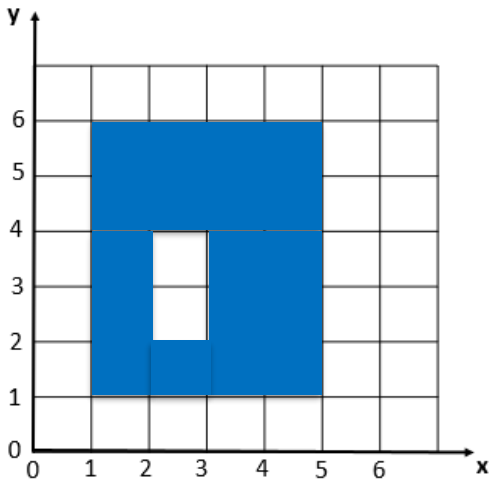
REVERSE-CONDITION 9 :

```
(x>1 and x<6) and (y>1 and y<6) and not (x<3 and y<3)
```



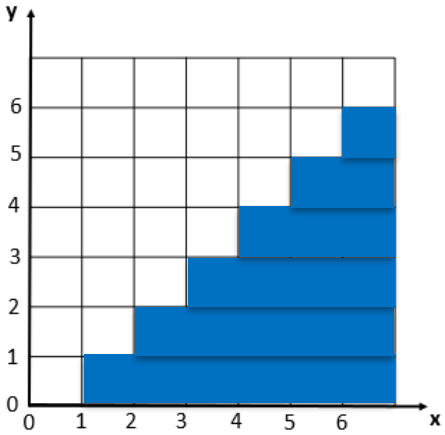
REVERSE-CONDITION 10 :

```
(x>1 and x<5) and (y>1 and y<6) and not(x>2 and x<3 and y>2 and y<4)
```



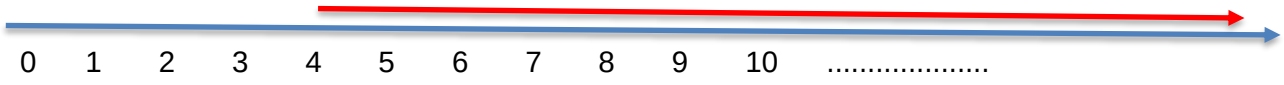
REVERSE-CONDITION 11 :

```
x – y > 0 ⇔ x>y : x>1,y<=1  x>2,y<=2  x>3,y<=3 ......
```



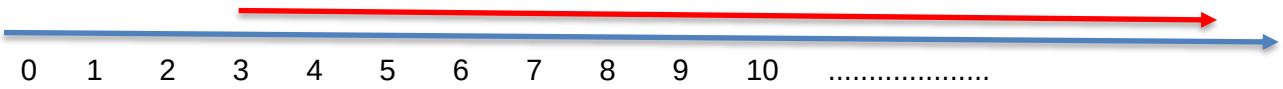
CONDITION 8:

```
If (a>=1 or a>=4):a>4
```



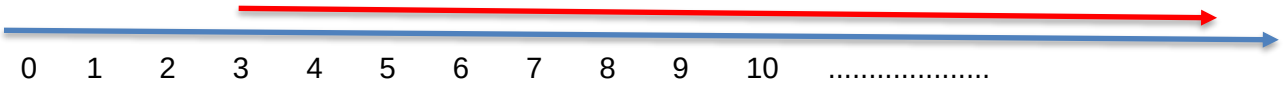
CONDITION 9:

```
If (a>=3 and a>3):a>3
```



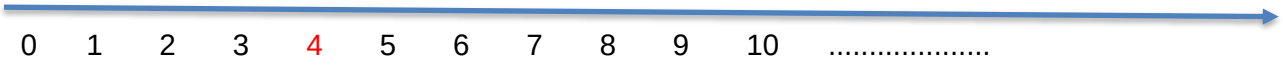
CONDITION 10:

```
If (a>=3 or a>3):a>3
```



CONDITION 11:

```
If (a>=4 and a<=4):a=4
```



CONDITION 12:

```
If (a>4 or a<4):a=4
```

CONDITION 13:

```
If (a>=4 or a<=4):a=4
```