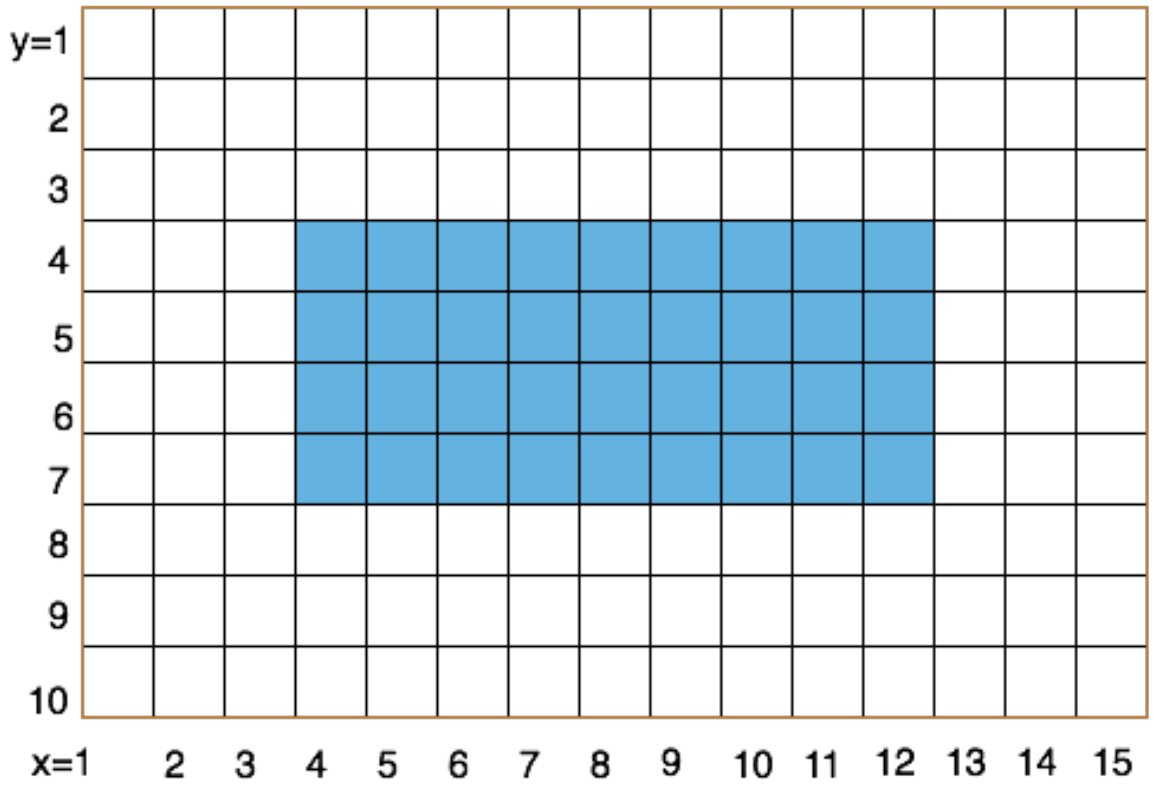
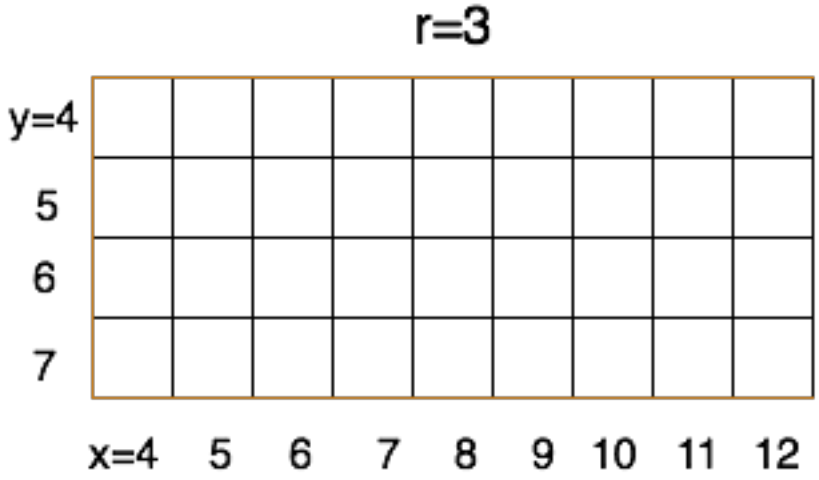
HW2: Weihanchu;

Rui Liao



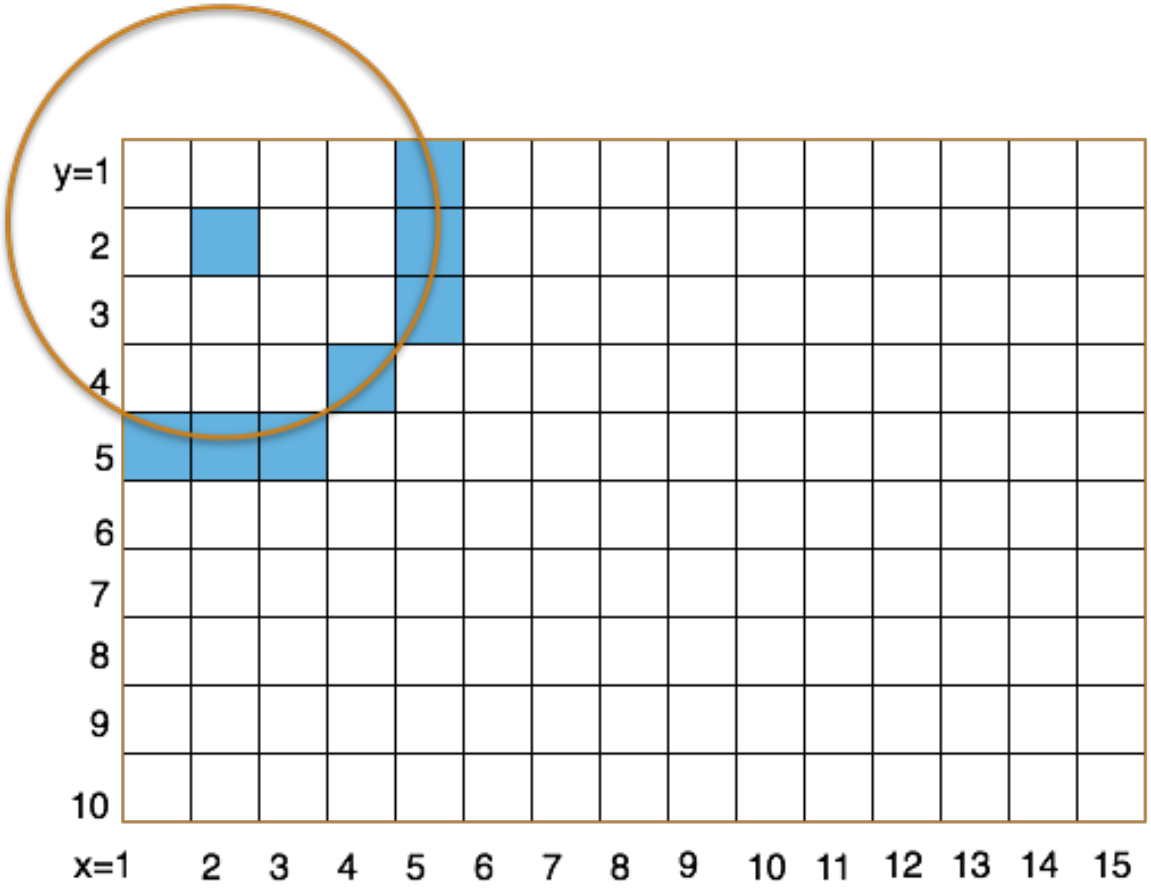
the blue area is the range of possible y and x values for the center of the circle of r=3 to be all in the image.

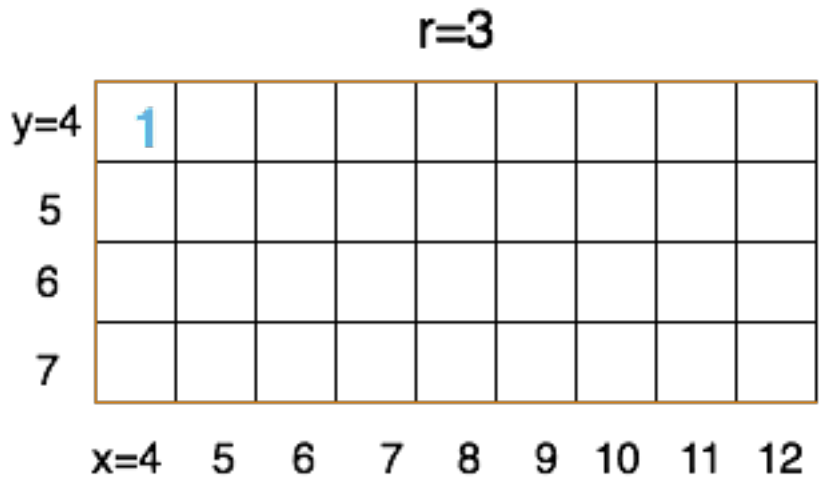
Then we need to consider each edge pixel separately.



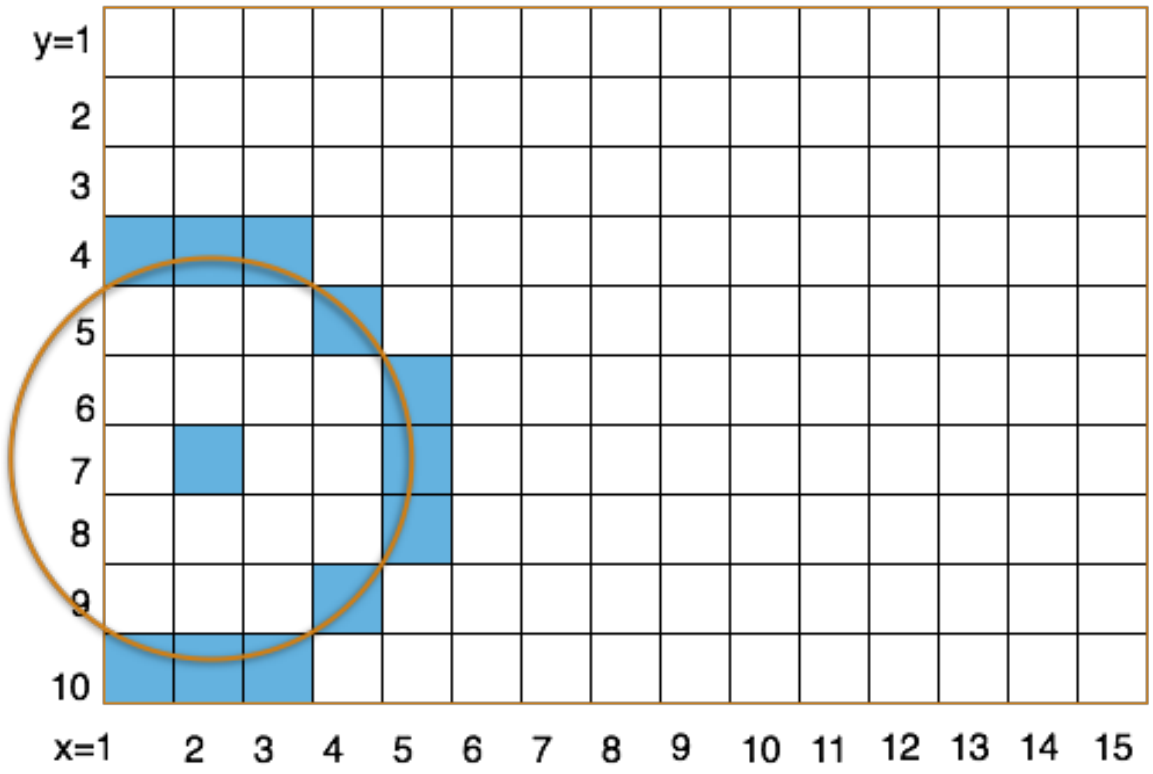
Hough space,for center of circles
of size r=3 to be entirely in the image

Begin with the first edge pixel(2,2)

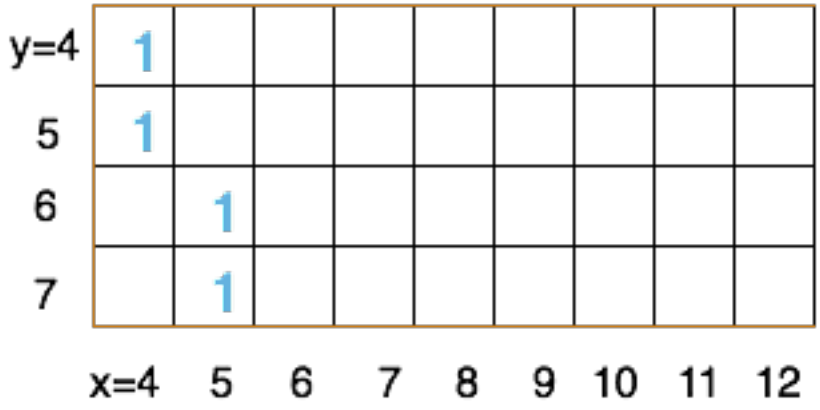




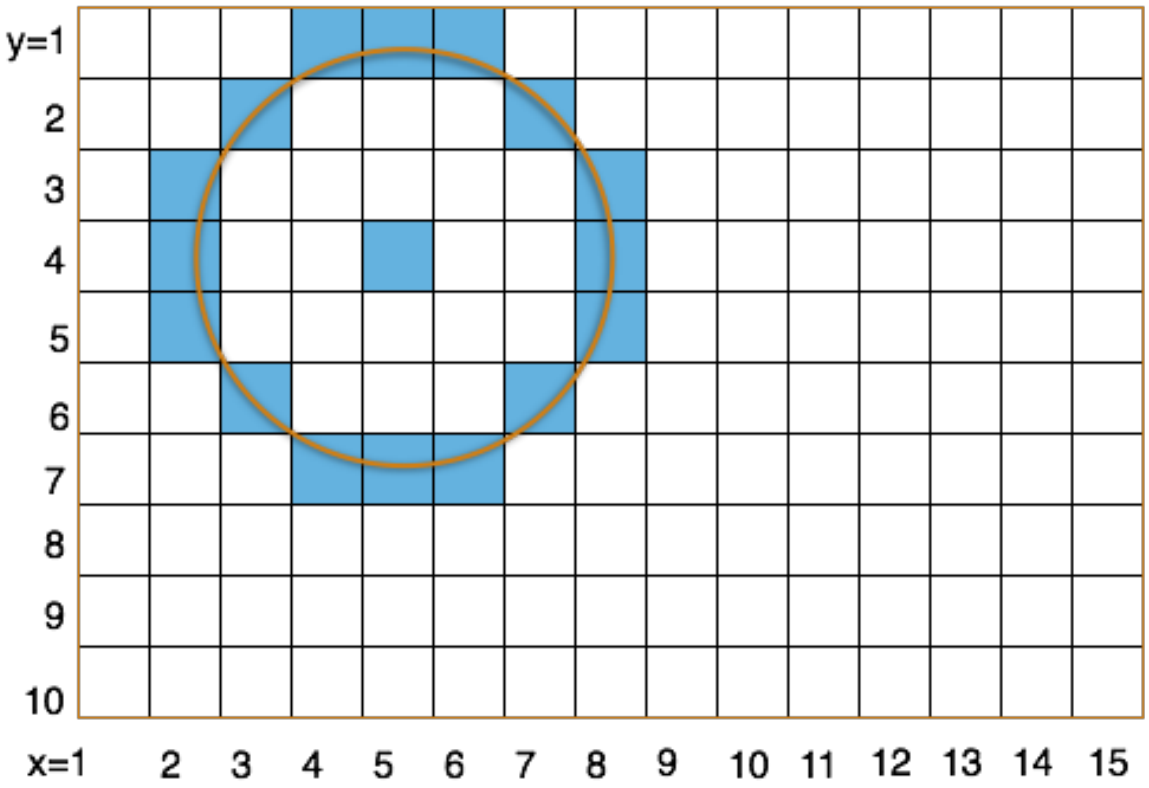
Then we consider the nest pixel (2,7)



r=3



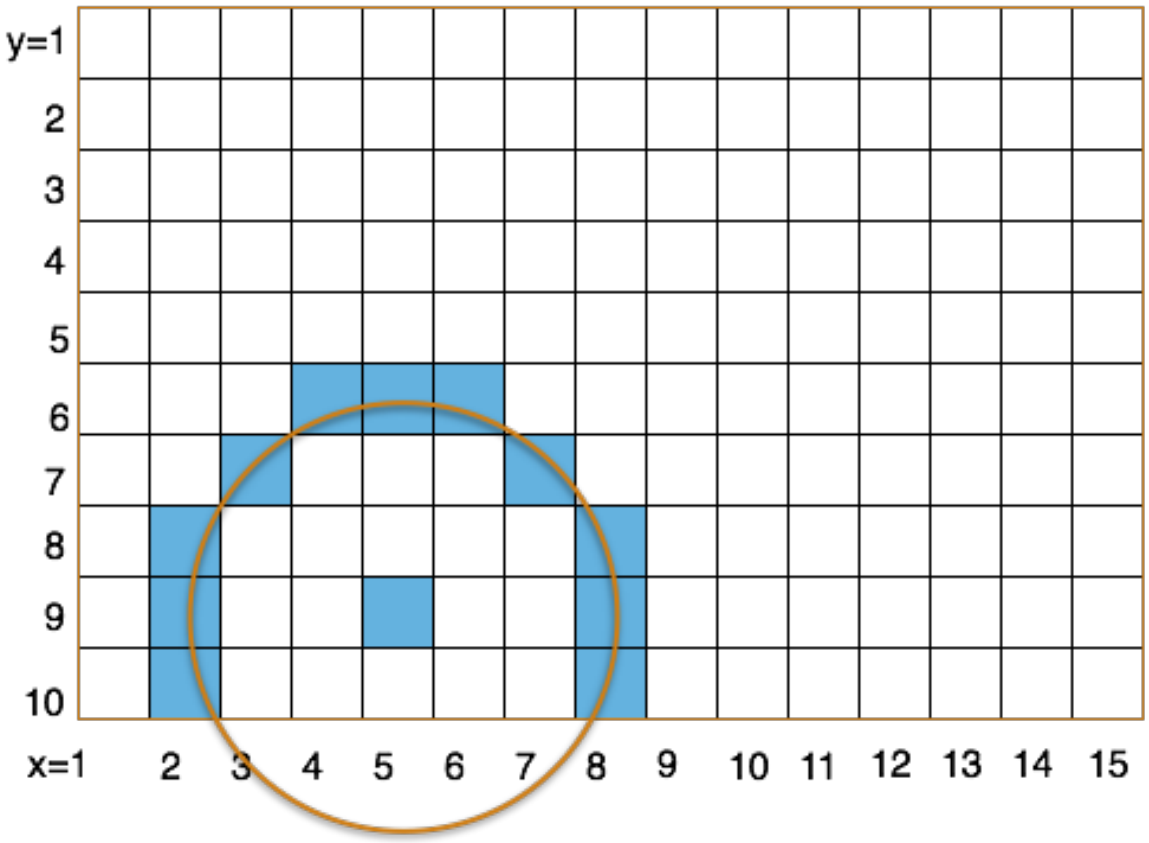
Then we consider the next pixel (5,4)



r=3

y=4	1				1				
5	1				1				
6		1		1					
7	1	2	1						
x=4	5	6	7	8	9	10	11	12	

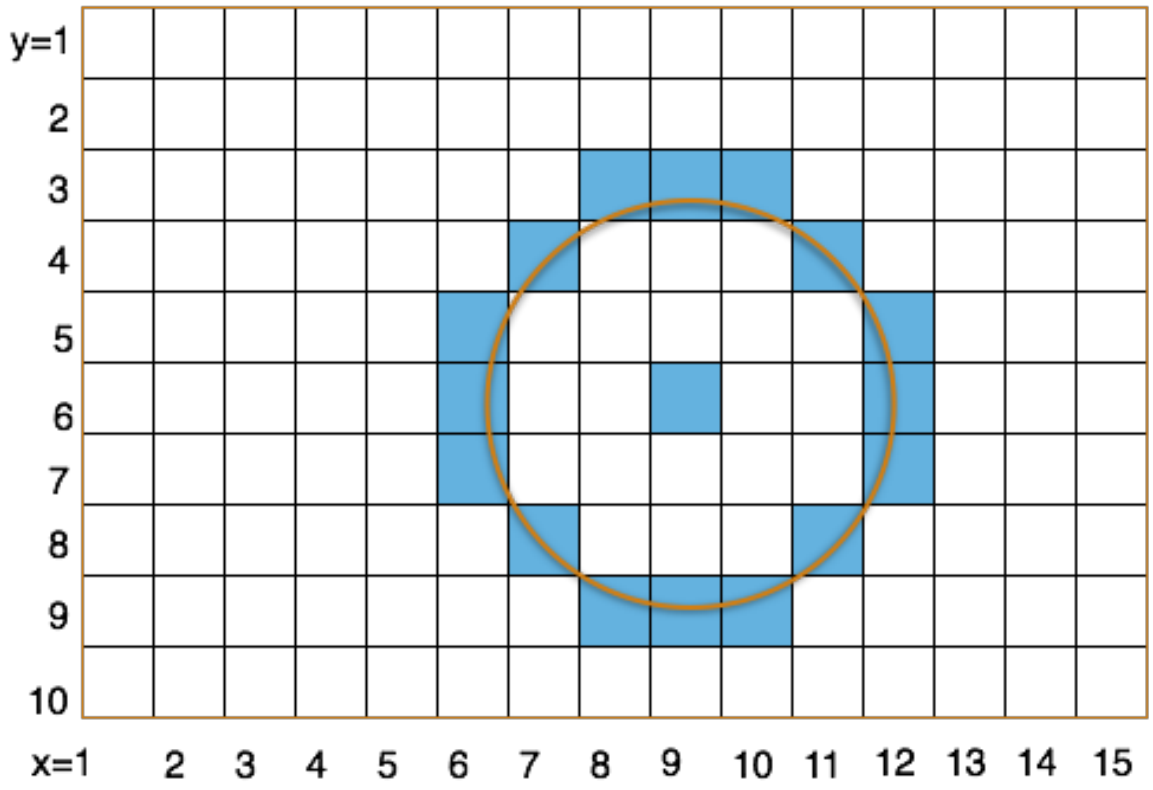
Then we consider the next pixel (5,9)



r=3

y=4	1				1				
5	1				1				
6	1	2	1	1					
7	1	2	1	1					
	x=4	5	6	7	8	9	10	11	12

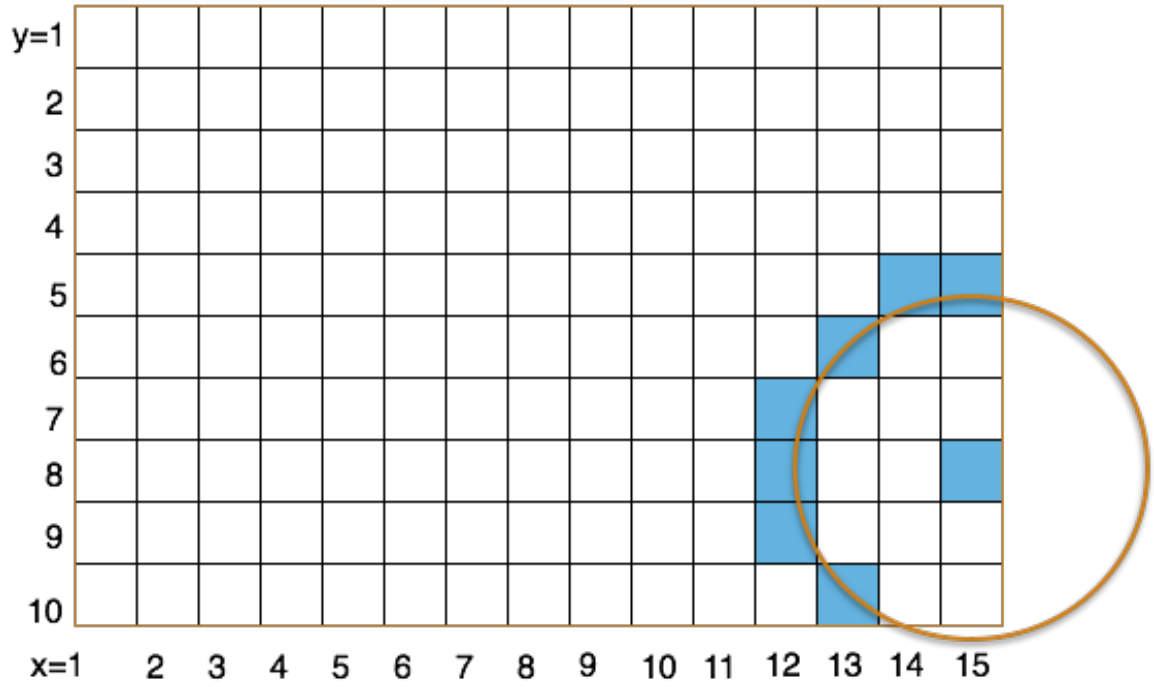
Then we consider the next pixel (9,6)



r=3

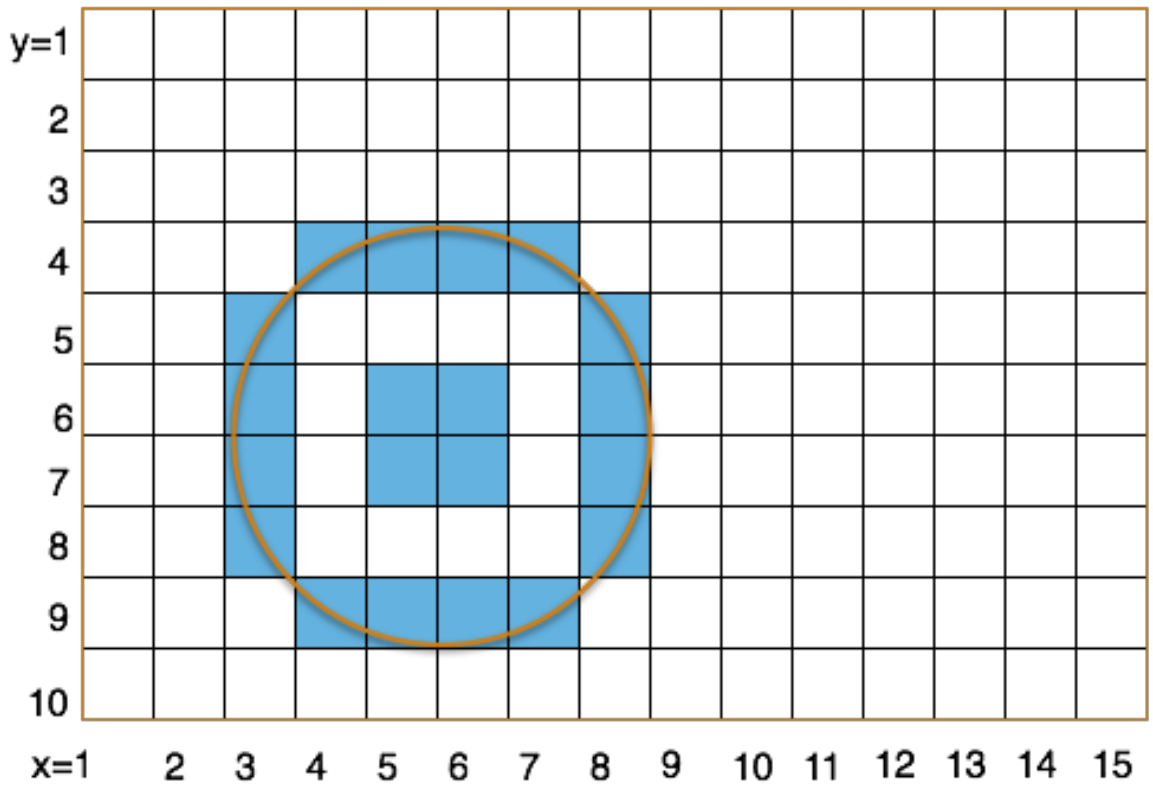
y=4	1			1	1			1	
5	1		1		1				1
6	1	2	2	1					1
7	1	2	2	1					1
x=4	5	6	7	8	9	10	11	12	

Then we consider the last pixel (9,6)



r=3

y=4	1			1	1			1	
5	1		1		1				2
6	1	2	2	1					1
7	1	2	2	1					1
	x=4	5	6	7	8	9	10	11	12


y=1
2
3
4
5
6
7
8
9
10
x=1
2
3
4
5
6
7
8
9
10
11
12
13
14
15