

Star Pattern :-

①

	1	2	3	4	5
1	*				
2	*	*			
3	*	*	*		
4	*	*	*	*	
5	*	*	*	*	*

②

i	j
1	1
2	1, 2
3	1, 2, 3
4	1, 2, 3, 4
5	1, 2, 3, 4, 5

③

i	j
1	$j \leq 1$
2	$j \leq 2$
3	$j \leq 3$
4	$j \leq 4$
5	$j \leq 5$

④

$$j \leq i$$

i = rows, j = column

②

	1	2	3	4	5
1					*
2				*	*
3			*	*	*
4		*	*	*	*
5	*	*	*	*	*

②

i	j
1	5
2	4, 5
3	3, 4, 5
4	2, 3, 4, 5
5	1, 2, 3, 4, 5

③

i	j
1	$j = 5$
2	$j >= 4$
3	$j >= 3$
4	$j >= 2$
5	$j >= 1$

④

$$j >= 6 - i$$

③

	1	2	3	4	5
1	*	*	*	*	*
2		*	*	*	*
3			*	*	*
4				*	*
5					*

②

i	j
1	1, 2, 3, 4, 5
2	2, 3, 4, 5
3	3, 4, 5
4	4, 5
5	5

③

i	j
1	$j = 1$
2	$j >= 2$
3	$j >= 3$
4	$j >= 4$
5	$j >= 5$

④

$$j >= i$$

④

	1	2	3	4	5
1	*	*	*	*	*
2	*	*	*	*	
3	*	*	*		
4	*	*			
5	*				

②

i	j
1	1, 2, 3, 4, 5
2	1, 2, 3, 4
3	1, 2, 3
4	1, 2
5	1

③

i	j
1	$j \leq 5$
2	$j \leq 4$
3	$j \leq 3$
4	$j \leq 2$
5	$j \leq 1$

④

$$j \leq 6 - i$$

⑤

	1	2	3	4	5	6	7	8	9
1					*				
2			*	*	*				
3		*	*	*	*	*			
4	*	*	*	*	*	*	*		
5	*	*	*	*	*	*	*	*	

②

i	j
1	5
2	4, 5, 6
3	3, 4, 5, 6, 7
4	2, 3, 4, 5, 6, 7, 8
5	1, 2, 3, 4, 5, 6, 7, 8, 9

③

i	j
1	$j \leq 5$
2	$j \leq 4$
3	$j \leq 3$
4	$j \leq 2$
5	$j \leq 1$

③

$i >= 5$ and $j <= 5$
 $i >= 4$ and $j <= 6$
 $i >= 3$ and $j <= 7$
 $i >= 2$ and $j <= 8$
 $i >= 1$ and $j <= 9$

$i = 5$ and $j = 5$

$$j >= 6 + i \text{ and } j <= i + 4$$

⑦

1	*	*	*	*	*	*	*	*	*
2	*	*	*	*		*	*	*	*
3	*	*	*				*	*	*
4	*	*						*	*
5	*								*
	1	2	3	4	5	6	7	8	9

1	1	2	3	4	5	6	7	8	9
2	1	2	3	4		6	7	8	9
3	1	2	3				7	8	9
4	1	2						8	9
5	1								9

$i <= 5$ and $j >= 5$
 $i <= 4$ and $j >= 6$
 $i <= 3$ and $j >= 7$
 $i <= 2$ and $j >= 8$
 $i <= 1$ and $j >= 9$

$$j <= 6 - i \text{ and } j >= 4 + i$$

⑧

1			*			
2	*	*	*			
3	*	*	*	*	*	
4	*	*	*	*	*	*
5	*	*	*	*	*	*
6		*	*	*		
7			*			

1	1	4
2	2	3 4 5
3	3	2 3 4 5 6
4	4	1 2 3 4 5 6 7
5	5	2 3 4 5 6
6	6	3 4 5
7	7	4

$i >= 4$ and $i <= 4$
 $i >= 3$ and $i <= 5$
 $i >= 2$ and $i <= 6$
 $i >= 1$ and $i <= 7$
 $i >= 1$ and $i <= 6$
 $i >= 3$ and $i <= 5$
 $i >= 4$ and $i <= 4$

$$i >= 5 - k \text{ and } j <= 3 + k$$

$$i <= 4 \text{ ? } k++ : k--$$