

Star Pattern

Ques 1:

n = 5

```
*   *   *   *   *  
*   *   *   *   *  
*   *   *   *   *  
*   *   *   *   *  
*   *   *   *   *
```

Ques 2:

n = 5

```
*  
*   *  
*   *   *  
*   *   *   *  
*   *   *   *   *
```

Ques 3:

n = 5

```
*   *   *   *   *  
*   *   *   *  
*   *   *  
*   *  
*
```

Ques 4:
n = 5

```

                *
              * *
            * * *
          * * * *
        * * * * *

```

Ques 5:
n = 5

```

*   *   *   *   *
  *   *   *   *
    *   *   *
      *   *
        *

```

Ques 6:
n = 5

```

*   *   *   *   *
      *   *   *   *
          *   *   *
              *   *
                  *

```

Ques 7:
n = 5

```
*   *   *   *   *
*               *
*               *
*               *
*   *   *   *   *
```

Ques 8:
n = 5

```
*               *
  *           *
    *       *
  *       *
*           *
```

Ques 9:
n = 5

```
               *
             * * *
          * * * *
        * * * * *
      * * * * *
    * * * * *
  * * * * *
* * * * *
```

Ques 10:
n = 5

```

*   *   *   *   *   *   *   *   *
  *   *   *   *   *   *   *
    *   *   *   *   *
      *   *   *
        *

```

Ques 11:
n = 5

```

          *
        *   *
      *   *   *
    *   *   *   *
  *   *   *   *   *
*   *   *   *   *   *

```

Ques 12:
n = 5

```

          *
        *   !   *
      *   !   *   *
    *   !   *   !   *
  *   !   *   !   *   !   *
*   !   *   !   *   !   *   !   *

```

Ques 13:
n = 5

```
*
*  *
*  *  *
*  *  *  *
*  *  *  *  *
*  *  *  *
*  *  *
*  *
*
```

Ques 14:
n = 5

```

      *
    *  *
  *  *  *
*  *  *  *
  *  *  *  *
    *  *  *
      *  *
    *  *
```

Ques 15:
n = 5

A 10x10 grid of asterisks (*) forming a triangular shape. The asterisks are arranged in rows, with the number of asterisks per row increasing from 1 to 10. The first row has 1 asterisk at column 1. The second row has 2 asterisks at columns 1 and 2. The third row has 3 asterisks at columns 1, 2, and 3. The fourth row has 4 asterisks at columns 1, 2, 3, and 4. The fifth row has 5 asterisks at columns 1, 2, 3, 4, and 5. The sixth row has 6 asterisks at columns 1, 2, 3, 4, 5, and 6. The seventh row has 7 asterisks at columns 1, 2, 3, 4, 5, 6, and 7. The eighth row has 8 asterisks at columns 1, 2, 3, 4, 5, 6, 7, and 8. The ninth row has 9 asterisks at columns 1, 2, 3, 4, 5, 6, 7, 8, and 9. The tenth row has 10 asterisks at columns 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10.

Ques 16:
n = 5

A 10x10 grid of asterisks (*) forming a sparse pattern. The pattern is as follows:

				*	*	*	*	*	
			*	*	*	*			
		*	*	*					
	*	*							
*									
	*	*							
		*	*	*					
			*	*	*	*	*		
			*	*	*	*	*	*	
				*	*	*	*	*	*

Ques 17:
n = 7

```

*   *   *           *   *   *
*   *               *   *
*                   *
*
*                   *
*   *               *   *
*   *   *           *   *   *

```

Ques 18:
n = 7

```

           *
        *   *   *
      *   *   *   *   *
    *   *   *   *   *   *   *
      *   *   *   *   *
        *   *   *
           *

```

Ques 19:
n = 7

```

*   *   *   *   *   *   *
*   *   *           *   *   *
*   *               *   *
*                   *
*   *               *   *
*   *   *           *   *   *
*   *   *   *   *   *   *

```

Ques 20:
n = 7

```
      *
     *
    *
   *
  *
 *
*
```

Ques 21:
n = 5

```
      *
     *
    *
   *
  *
 *
*
```

Ques 22:
n = 5

```
 *  *  *  *  *  *  *  *  *
 *  *  *  *  *  *  *  *
 *  *  *  *  *  *  *  *
 *  *  *  *  *  *  *  *
 *  *  *  *  *  *  *  *
```


Number Pattern

Ques 23:

n = 5

```

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

Ques 24:

n = 5

```

        1
      2 2 2
    3 3 3 3 3
  4 4 4 4 4 4 4
5 5 5 5 5 5 5 5 5
```

Ques 25:

n = 5

```

        1
      2 3 4
    5 6 7 8 9
  10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25
```

Ques 26:

$n = 5$

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

Ques 27:

$n = 5$

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

Ques 28:

$n = 5$

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

Ques 29:

n = 5

				1				
			2	0	2			
		3	0	0	0	3		
	4	0	0	0	0	0	4	
5	0	0	0	0	0	0	0	5

Ques 30:

n = 5

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

Ques 31:

n = 5

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

Ques 32:

n = 5

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

Ques 33:

n = 10

```
0
9 0 9
8 9 0 9 8
7 8 9 0 9 8 7
6 7 8 9 0 9 8 7 6
5 6 7 8 9 0 9 8 7 6 5
4 5 6 7 8 9 0 9 8 7 6 5 4
3 4 5 6 7 8 9 0 9 8 7 6 5 4 3
2 3 4 5 6 7 8 9 0 9 8 7 6 5 4 3 2
1 2 3 4 5 6 7 8 9 0 9 8 7 6 5 4 3 2 1
```