

Pattern Questions

Print these patterns using loops:

```text

1.   \*\*\*\*\*  
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2.   \*  
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      \*\*\*  
      \*\*\*\*  
      \*\*\*\*\*

3.   \*\*\*\*\*  
      \*\*\*\*  
      \*\*\*  
      \*\*  
      \*

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

5.   \*  
      \*\*  
      \*\*\*  
      \*\*\*\*  
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      \*\*\*\*\*  
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6.           \*  
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7.     \*\*\*\*\*  
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8.             \*  
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9.   \*\*\*\*\*  
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10.            \*  
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        \*  \*  \*  
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   \*  \*  \*  \*  \*

11.   \*  \*  \*  \*  \*  
      \*  \*  \*  \*  
      \*  \*  \*  
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      \*

12.   \*  \*  \*  \*  \*  
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      \*  \*  
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      \*  
      \*  \*  
      \*  \*  \*  
      \*  \*  \*  \*  
   \*  \*  \*  \*  \*

13.            \*  
          \*  \*  
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      \*          \*  
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14. * * * * *
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15.

A diagram showing 15 stars arranged in a circular pattern. There are 14 stars forming a ring, with one star in the center. The stars are arranged in a hexagram-like pattern, with 14 stars forming the outer ring and 1 star in the center.

16.

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
|   |   |   |   | 1 |   |   |   |   |
|   |   |   | 1 |   | 1 |   |   |   |
|   |   | 1 |   | 2 |   | 1 |   |   |
|   | 1 |   | 3 |   | 3 |   | 1 |   |
| 1 |   | 4 |   | 6 |   | 4 |   | 1 |

17.

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
|   |   |   |   |   |   | 1 |
|   |   |   |   |   | 2 | 1 |
|   |   |   |   | 3 | 2 | 1 |
|   |   |   | 4 | 3 | 2 | 1 |
|   |   | 3 | 2 | 1 | 2 | 3 |
|   | 2 | 1 | 2 |   |   |   |
| 1 |   |   |   |   |   |   |

18.

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19.           \*                               \*

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         \*\*\*\*                               \*\*\*\*

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20.      \*\*\*\*\*  
          \*    \*  
          \*    \*  
          \*    \*  
          \*\*\*\*\*

21.      1  
          2    3  
          4    5    6  
          7    8    9    10  
          11 12 13 14 15

22.      1  
          0 1  
          1 0 1  
          0 1 0 1  
          1 0 1 0 1

23.               \*               \*  
              \*       \*       \*       \*  
          \*               \*               \*

24.      \*               \*  
          \*\*               \*\*  
          \* \*               \* \*  
          \*    \*       \*    \*  
          \*       \*\*       \*  
          \*       \*\*       \*  
          \*    \*       \*    \*  
          \* \*               \* \*  
          \*\*               \*\*  
          \*               \*

25.               \*\*\*\*\*  
              \*       \*  
              \*       \*  
              \*       \*  
              \*       \*  
          \*\*\*\*\*

26.      1 1 1 1 1 1  
          2 2 2 2 2  
          3 3 3 3  
          4 4 4  
          5 5  
          6

27.    1 2 3 4    17 18 19 20  
           5 6 7    14 15 16  
               8 9    12 13  
                 10 11

28.        \*  
             \* \*  
            \* \* \*  
           \* \* \* \*  
          \* \* \* \* \*  
         \* \* \* \*  
        \* \* \*  
       \* \*  
       \*

29.        \*                \*  
           \*\*                \*\*  
          \*\*\*                \*\*\*  
          \*\*\*\*                \*\*\*\*  
          \*\*\*\*\*  
          \*\*\*\*                \*\*\*\*  
          \*\*\*                \*\*\*  
          \*\*                \*\*  
          \*

30.                1  
               2 1 2  
            3 2 1 2 3  
           4 3 2 1 2 3 4  
          5 4 3 2 1 2 3 4 5

31.            4 4 4 4 4 4 4  
               4 3 3 3 3 3 4  
               4 3 2 2 2 3 4  
               4 3 2 1 2 3 4  
               4 3 2 2 2 3 4  
               4 3 3 3 3 3 4  
               4 4 4 4 4 4 4

32.        E  
           D E  
           C D E  
           B C D E  
           A B C D E

33.        a  
           B c  
           D e F  
           g H i J

|     | k     | L | m | N   | o |
|-----|-------|---|---|-----|---|
| 34. | E     | D | C | B   | A |
|     | D     | C | B | A   |   |
|     | C     | B | A |     |   |
|     | B     | A |   |     |   |
|     | A     |   |   |     |   |
| 35. | 1     |   |   | 1   |   |
|     | 12    |   |   | 21  |   |
|     | 123   |   |   | 321 |   |
|     | 12344 |   |   | 321 |   |
| ... |       |   |   |     |   |