

Here are 20 practice questions focused on patterns to help strengthen your understanding of nested loops:

1. Square Star Pattern

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

Print a $n \times n$ square of stars using nested loops.

2. Right-Angled Triangle (Stars)

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

3. Inverted Right-Angled Triangle (Stars)

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

4. Pyramid Pattern (Stars)

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

5. Inverted Pyramid (Stars)

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

6. Diamond Pattern (Stars)

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

7. Hollow Square Pattern

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

8. Hollow Right-Angled Triangle

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

9. Numeric Triangle

```
1
12
123
1234
12345
```

10. Inverted Numeric Triangle

```
12345
1234
123
12
1
```

11. Floyd's Triangle

```
1
2 3
4 5 6
7 8 9 10
```

12. Pascal's Triangle

```
      1
     1 1
    1 2 1
   1 3 3 1
  1 4 6 4 1
```

13. Hollow Pyramid

```

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

```

14. Butterfly Pattern

```

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

```

15. Hourglass Pattern

```

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

```

16. Right-Angled Triangle (Numbers)

```

1
22
333
4444
55555

```

17. Mirrored Right-Angled Triangle

```

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

```

18. Number Pyramid

```

  1
 121
12321
1234321

```

19. Zig-Zag Pattern

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

20. Cross Pattern

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