

Pattern 117

```
# *****  
# *****  
# ****  
# ****  
# **  
# **
```

```
n = 6
```

```
for i in range(n, 0, -1):  
    k = i + 1 if i % 2 != 0 else i  
    print("*" * k)
```

Pattern 118

```
# *****  
# *****  
#      ****  
#      ****  
#          **  
#          **
```

```
n = 6
```

```
for i in range(n, 0, -1):  
    k = i + 1 if i % 2 != 0 else i  
    print(" " * (n - k) + "*" * k)
```

Pattern 119

```
# *  
# *  
# **  
# **  
# ***  
# ***
```

```
n = 3
```

```
for i in range(1, n + 1):  
    for c in range(n - 1, 0, -1):  
        for j in range(i):  
            print("*", end="")  
        print()
```

Pattern 120

```
#  *  
#  *  
# **  
# **  
# ***  
# ***
```

```
for i in range(1, 4):  
    for x in range(2, 0, -1):  
        for y in range(2, i - 1, -1):  
            print(" ", end="")  
        for j in range(i):  
            print("*", end="")  
        print()
```

Pattern 121

```
# ***  
# ***  
# **  
# **  
# *  
# *
```

```
for i in range(3, 0, -1):  
    for x in range(2, 0, -1):  
        for j in range(i):  
            print("*", end="")  
        print()
```

Pattern 122

```
# ***  
# ***  
#  **  
#  **  
#   *  
#   *
```

```
for i in range(3, 0, -1):  
    for x in range(2, 0, -1):  
        for y in range(2, i - 1, -1):  
            print(" ", end="")  
        for j in range(i):  
            print("*", end="")  
        print()
```

Pattern 123

```
#  *
#  *
# ***
# ***
# *****
# *****
```

```
n = 3
z = 1
for i in range(n):
    for j in range(2, 0, -1):
        for x in range(n - 1, i - 1, -1):
            print(" ", end="")
        for y in range(z):
            print("*", end="")
        print()
    z += 2
```

Pattern 124

```
#      **
#      **
#     *   *
#     *   *
#    *     *
#    *     *
# *         *
```

```
n = 7
x = n
for i in range(1, n + 1):
    for j in range(1, 2 * n + 1):
        if j == x or j == 2 * n - x + 1:
            print("*", end="")
        else:
            print(" ", end="")
    print()
    if i % 2 == 0:
        x -= 2
```


Pattern 125

```
# *****  
#      ***  
#           *  
#      ***  
# *****
```

```
n = 3
```

```
s1 = n * 2 - 1
```

```
s2 = 3
```

```
for i in range(1, n + 1):  
    print(" " * (i - 1), end="")  
    print("*" * s1)  
    s1 -= 2
```

```
for i in range(1, n):  
    print(" " * (n - i - 1), end="")  
    print("*" * s2)  
    s2 += 2
```

Pattern 126

```
#      * * * * *
#    * * * * * *
#  * * * * * * *
# * * * * * * * *
# * * * * * * * *
# * * * * * * * *
#  * * * * * * *
#    * * * * * *
#      * * * * *
```

```
for i in range(1, 10):
    if i == 1 or i == 9:
        x = 6
        z = 4
    elif i == 2 or i == 8:
        x = 8
        z = 2
    elif i == 3 or i == 7:
        x = 9
        z = 1
    else:
        x = 10
        z = 0

    print(" " * z, end="")
    print("* " * x)
```

Pattern 127

```
#  ***      ***
# ***** *****
# *****
# *****
#      *****
#      *****
#      *****
#      ***
#      *
```

```
n = 6
```

```
# Top part of the heart
for i in range(n // 2, n + 1, 2):
    print(" " * (n - i), end="")
    print("*" * i, end="")
    print(" " * (n - i), end="")
    print("*" * i)
```

```
# Bottom part of the heart
for i in range(n, 0, -1):
    print(" " * (n - i), end="")
    print("*" * (2 * i - 1))
```

Pattern 128

```
#  **  **
#  *   *   *
#  *       *
#  *     *
#    *  *
#      *
```

```
for row in range(6):
    for col in range(7):
        if (row == 0 and col % 3 != 0) or (row == 1 and col
% 3 == 0) or (row - col == 2) or (row + col == 8):
            print("*", end="")
        else:
            print(" ", end="")
    print()
```

Pattern 129: X-Max Tree

```
#           *
#         * *
#       * * *
#     * * * *
#   * * * *
# * * * *
#* * * * *
# * * * * *
#   * * * *
#     * * * *
#       * * * *
#         * * * *
```

```
height = 3
```

```
width = 4
```

```
space = width * 5
```

```
r = 1
```

```
m = 1
```

```
for r in range(1, height):
    for i in range(m, width + 1):
        for j in range(space, i - 1, -1):
            print(" ", end="")
        for k in range(1, i + 1):
            print("* ", end="")
        print()
    m += 2
    width += 2
```

```
for i in range(1, 5):
    for j in range(space - 3, 0, -1):
```

```
    print(" ", end="")  
for k in range(1, 5):  
    print("* ", end="")  
print()
```

Pattern 130

```
# * * * * *
# *      * *
# *      *   *
# * *      *
# * * * * *
```

```
n = 5
```

```
for i in range(1, n + 1):
    for j in range(1, n + 1):
        if i == 1 or i == n or j == 1 or j == n or i + j ==
n + 1:
            print("* ", end="")
        else:
            print("  ", end="")
    print()
```

Pattern 131

```
#   * *  
# *   *  
#     *  
#     *  
# * * * * *
```

```
n = 5  
mid = n // 2 + 1  
  
for i in range(1, n + 1):  
    for j in range(1, n + 1):  
        if j == mid or i == n or (i + j == mid and j <=  
mid):  
            print("* ", end="")  
        else:  
            print("  ", end="")  
    print()
```


Pattern 132

```
# * * * * *
#           *
# * * * * *
# *
# * * * * *
```

```
n = 5
mid = n // 2 + 1

for i in range(1, n + 1):
    for j in range(1, n + 1):
        if i == 1 or i == n or i == mid or (j == 1 and i >=
mid) or (j == n and i < mid):
            print("* ", end="")
        else:
            print("  ", end="")
    print()
```

Pattern 133

```
# * * * * *
#           *
# * * * * *
#           *
# * * * * *
```

```
n = 5
```

```
mid = n // 2 + 1
```

```
for i in range(1, n + 1):
    for j in range(1, n + 1):
        if i == 1 or i == n or i == mid or j == n:
            print("* ", end="")
        else:
            print("  ", end="")
    print()
```

Pattern 134

```
# *      *
# *      *
# * * * * *
#      *
#      *
```

```
n = 5
mid = n // 2 + 1

for i in range(1, n + 1):
    for j in range(1, n + 1):
        if i == mid or (j == 1 and i <= mid) or j == n:
            print("* ", end="")
        else:
            print("  ", end="")
    print()
```

Pattern 135

```
# * * * * *
# *
# * * * * *
#           *
# * * * * *
```

```
n = 5
mid = n // 2 + 1

for i in range(1, n + 1):
    for j in range(1, n + 1):
        if i == 1 or i == n or i == mid or (j == 1 and i <=
mid) or (j == n and i > mid):
            print("* ", end="")
        else:
            print("  ", end="")
    print()
```

Pattern 136

```
# * * * * *
# *
# * * * * *
# *           *
# * * * * *
```

```
n = 5
mid = n // 2 + 1

for i in range(1, n + 1):
    for j in range(1, n + 1):
        if i == 1 or i == n or i == mid or j == 1 or (j ==
n and i > mid):
            print("* ", end="")
        else:
            print("  ", end="")
    print()
```

Pattern 137

```
# * * * *
#       *
#     *
#   *
# *
```

```
n = 5
```

```
for i in range(1, n + 1):
    for j in range(1, n):
        if i == 1 or i + j == n + 1:
            print("* ", end="")
        else:
            print("  ", end="")
    print()
```

Pattern 138

```
# * * * * *
# *           *
# * * * * *
# *           *
# * * * * *
```

```
n = 5
mid = n // 2 + 1

for i in range(1, n + 1):
    for j in range(1, n + 1):
        if i == 1 or i == n or i == mid or j == 1 or j ==
n:
            print("* ", end="")
        else:
            print("  ", end="")
    print()
```

Pattern 139

```
# * * * * *
# *           *
# * * * * *
#             *
# * * * * *
```

```
n = 5
mid = n // 2 + 1

for i in range(1, n + 1):
    for j in range(1, n + 1):
        if i == 1 or i == n or i == mid or (j == 1 and i <=
mid) or j == n:
            print("* ", end="")
        else:
            print("  ", end="")
    print()
```


Pattern 140

```
#      *
#     * *
#    *****
#   *       *
#  *         *
```

```
n = 5
x = n
```

```
for i in range(1, n + 1):
    for j in range(1, 2 * n + 1):
        if j == x or j == n + i - 1:
            print("*", end="")
        elif j >= x and j <= n + i - 1 and i == n // 2 + 1:
            print("*", end="")
        else:
            print(" ", end="")
    print()
    x -= 1
```

Pattern 141

```
# ****  
# *   *  
# *****  
# *   *  
# ****
```

```
n = 5
```

```
for i in range(1, n + 1):  
    for j in range(1, n + 1):  
        if j == 1 or (i == 1 or i == n or i == n // 2 + 1)  
and j <= n - 1:  
            print("*", end="")  
        elif i != 1 and i != n and j == n:  
            print("*", end="")  
        else:  
            print(" ", end="")  
    print()
```

Pattern 142

```
# *****  
# *  
# *  
# *  
# *****
```

```
n = 5
```

```
for i in range(1, n + 1):  
    for j in range(1, n + 1):  
        if i == 1 or i == n or j == 1:  
            print("*", end="")  
    print()
```

Pattern 143

```
# ****
# *   *
# *   *
# *   *
# ****
```

```
n = 5
```

```
for i in range(1, n + 1):
    for j in range(1, n + 1):
        if j == 1 or (i == 1 or i == n) and j <= n - 1:
            print("*", end="")
        elif i != 1 and i != n and j == n:
            print("*", end="")
        else:
            print(" ", end="")
    print()
```

Pattern 144

```
# *****  
# *  
# *****  
# *  
# *****
```

```
n = 5
```

```
for i in range(1, n + 1):  
    for j in range(1, n + 1):  
        if j == 1 or i == 1 or i == n or i == n // 2 + 1:  
            print("*", end="")  
    print()
```

Pattern 145

```
# *****  
# *  
# *****  
# *  
# *
```

```
n = 5
```

```
for i in range(1, n + 1):  
    for j in range(1, n + 1):  
        if j == 1 or i == 1 or i == n // 2 + 1:  
            print("*", end="")  
        else:  
            print(" ", end="")  
    print()
```

Pattern 146

```
# *****  
# *  
# * ***  
# *   *  
# *****
```

```
n = 5
```

```
for i in range(1, n + 1):  
    for j in range(1, n + 1):  
        if j == 1 or i == 1 or i == n or (i > n // 2 and j  
== n) or (i == (n // 2 + 1) and j > n // 2):  
            print("*", end="")  
        else:  
            print(" ", end="")  
    print()
```