

Pattern 1

N = 5

```
# # # # #  
# # # # #  
# # # # #  
# # # # #  
# # # # #
```

Pattern 2

N = 5

```
#  
# #  
# # #  
# # # #  
# # # # #
```

Pattern 3

N = 5

```
# # # # #  
# # # #  
# # #  
# #  
#
```

Pattern 4

N = 5

```
      #
     # #
    # # #
   # # # #
  # # # # #
```

Pattern 5

N = 5

```
# # # # #
  # # # #
    # # #
      # #
        #
```

Pattern 6

N = 5

```
# # # # #
    # # # #
        # # #
            # #
                #
                    #
```

Pattern 7

N = 5

```
# # # # #
#           #
#           #
#           #
# # # # #
```

Pattern 8

N = 5

```
#           #
#   #   #
#     #
#   #   #
#           #
```

Pattern 9

N = 5

```
           #
        # # #
      # # # # #
    # # # # # #
  # # # # # # #
# # # # # # # #
```

Pattern 10

N = 5

```
# # # # # # # # #
  # # # # # # #
    # # # # #
      # # #
        # #
          #
```

Pattern 11

N = 5

```
      #
    #   #
  #   #   #
#   #   #   #
#   #   #   #   #
```

Pattern 12

N = 5

```
      #
    # ! #
  # ! # ! #
# ! # ! # ! #
# ! # ! # ! # ! #
```

Pattern 13

N = 5

```
#  
# #  
# # #  
# # # #  
# # # # #  
# # # #  
# # #  
# #  
#
```

Pattern 14

N = 5

```
      #  
    # #  
  # # #  
# # # #  
# # # # #  
  # # # #  
    # # #  
      # #  
      #
```

Pattern 15

N = 5

```
# # # # #
    # # # #
        # # #
            # #
                #
                    #
            # #
        # # #
    # # # #
# # # # #
```

Pattern 16

N = 5

```
        # # # # #
      # # # #
    # # #
  # #
#
  # #
    # # #
      # # # #
        # # # # #
```

Pattern 17

N = 7 (N should be odd)

```
# # #   # # #  
# #       # #  
#           #
```

```
#           #  
# #       # #  
# # #   # # #
```

Pattern 18

N = 7 (N should be odd)

```
      #  
    # # #  
  # # # # #  
# # # # # # #  
  # # # # #  
    # # #  
      #
```

Pattern 19

N = 7 (N should be odd)

```
# # # # # # #  
# # #   # # #  
# #       # #  
#           #  
# #       # #  
# # #   # # #  
# # # # # # #
```

Pattern 20

N = 7 (N should be odd)

```
      #
     # #
    #   #
   #     #
  #       #
 #         #
#           #
  #       #
   #     #
    #   #
     # #
      #
```

Pattern 21

N = 5

```
      #
     # #
    # # #
   # # # #
  # # # # #
 # # # # #
# # # # #
```

Pattern 22

N = 5

```
# # # # #
# # # # #
# # #   #
# #     #
#       #
```


Pattern 23

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
```

Pattern 24

N = 5 (Hint: use tab “\t” to separate the numbers)

```
      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
```

Pattern 25

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
```

Pattern 26

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
```

Pattern 27

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
```

Pattern 28

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
```

Pattern 29

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
```

Pattern 30

N = 5

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

Pattern 31

N = 5

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

Pattern 32

N = 10 (Hint: 1. take the mod 10 of the number that you want to print)

```

      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

```

Pattern 33

N = 5 (This is a hard pattern, no worries if you are not able to make it)

```

# # # # # # # # # #
#   #   #   #   #
# # #   #   #   #
#       #   #   #
# # # # #   #   #
#       #   #   #
# # # # # # #   #
#       #   #
# # # # # # # # #
#       #
# # # # # # # # #

```