Patterns

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```
Q1> Given N as input, print * N times
      T: 5
      0: ****
public static void moin (....) of
      // Initialise Scanner ....
       int N = scannox.nextInt();
       for (int t = 1; t \le N; t++) {

System.out. print("x");

3
Q2> Given N as input. Print a square of N*N size
      containing * in each cell
      T: 5
      0: ****
                * * * * *
                * * * * *
                * * * * *
                 * * * * *
 public static void main (....) of
       // Anitialise Scanner .....

int N = \text{scanner.nextInf}();
        for (int k=1; k < = N; k++) f
```

```
for (int c = 1; C<=N; C+t) of
System.out. print("x");

System.out. print ln();
Q3> Given input N, M. Print a rect. of N*M size
       containing * in each cell
        T: N=3 M=U
        0: ***
               * * * *
               * * * *
   public static void main (....) of
             // Initialise Scanner ....
             int N = scanner.nextInt();
             int M = scanner. nextInt();
            for (int k=1; k \le N; k++) of
for (int k=1; k \le N; k++) of
System.out. print("*");
System.out. print("*");
```

```
2
                  [1,2,3,4]
                  [1,2,3,4]
           3
Q4> given N as input, print statecase of size N
                                             Row
       I: 5
                                                    Stoves
                                              1
       0:
                                                      1
                                                      2
                                                     3
                                                     5
public static void moin (....) of
       // Anitialise Scanner ....
        int N = \text{scanner. nextInt()};
       for (int k=1; k \le N; k++) of
for (int C=1; C \le k; C++) of
System.out. print("x");
            System.out.print ln();
                           C
                  H
                        T1 27
                   2
                   3
                           [123]
                          [1234]
                   4
                          [123 45]
```

C

5

[1,2,3,4]

K

1

```
Q5> Given N as input Print the pattern as shown
  I:
                            T: U
      3
                            0:
  0:
              Dry Lun
                                              Dry run
      static void main (....) of
public
      // Initialise Scanner ....
       int N = scanner. nextInt();
       for (int k=1; k<=N; k++) {
           for (int c=1; C<= k; C++) of
                if (c%2 ==0) { // even
                system.out.print(C);
3 else {
                   System.out. print (11x11);
            System.out. print ln ();
                     N =3
                     C
                H
                    (1)
                 1
                   [12]
                 2
                 3
                       [123]
```

```
Q6> Given N or input, print the pattern or shown
                                                           N = 3
                                                                                                                                                                                                                   N = U
      N=5
                                                                                                                              3
                                                                                                                                          for the first and lost column print *
                                                                                                                                          otherwise print __
                                                   static void main (....)
public
                                                        11 Anitialise
                                                                                                                                           Scanner ....
                                                            int N = scanner.nextInt();
                                                     for (int k=1; k \le N; k++) {

for (int k=1; k \le N; k++) {

for (int k=1; k \le N; k++) {

if (k=1; k \le N) {

if (k=1; k \ge N) {

if (k=1; k \le N) {

if (k=1; k \ge N) {

if (k=1; 
                                                                                                      System.out. print ln ();
```

```
Q7> Given N as input, Print the pattern as shown
            N = 3
                                                                     N = U
                              r store
                                                                                            r Stors
                                                                 * * * * 1 4
          * * * 1 3
* * 2 2
                              3 1
          *
                                                                                          u 1
          static void moin (....) of
public
             // Anitialise Scanner ....
              int N = scanner.nextInt(); // N=3
              for (int r=1; r <= N; r++) of

for (int c=N; c>= r; c--) of

System.out. print("x");

3

System.out. print ln();
                                3
f \mathrel{\begin{tabular}{ll} $f \mathrel{\begin{tabular}{ll} $g$ & $\longrightarrow$ & $\Gamma$ & $t$ & $N$ & $d$ \\ & f \mathrel{\begin{tabular}{ll} $f$ & $\longrightarrow$ & $\Gamma$ & $t$ & $N$ & $d$ \\ & f \mathrel{\begin{tabular}{ll} $count = N-R+1$ \\ & $print(*)$ \\ & & print(*)$ \\ & & & \\ \hline \end{tabular}} }
```

Break 22:35

Q8> Given N as input, Print the pattern as shown N=3 N=U

$$k$$
 Spaces
 story

 *
 *
 1
 2
 2

 *
 *
 2
 1
 2

 *
 *
 3
 0
 2

 N=3
 N=3
 Spaces
 Story

 *
 1
 $\frac{3}{N-2}$
 2

 *
 *
 1
 $\frac{3}{N-2}$
 2

 *
 *
 2
 $\frac{3}{N-2}$
 1
 2

 *
 *
 3
 $\frac{3}{N-2}$
 1
 2

 *
 *
 3
 $\frac{3}{N-2}$
 1
 2

 *
 *
 3
 $\frac{3}{N-2}$
 2
 2

For every now do the below * loop N-re time and print space *

```
public static void main (....) of
     // Anitialise Scanner .....
     int N = \text{scanner.nextInt()}; // N=3
     for (int r=1; r <= N; r++) {
          System, out. print ("*");
          System, out. print ("*");
          system.out.println();
       N=Y
                                 print
           N-le C
       Je
                  [123] *$$$$
       1
            3
       2 2 [12]
                             * 22 *
```

3 1 [1] 末5米

 Γ

水水

 \bigcirc

y

Q9> Given N as input, Print the pattern as shown N=3 N=U

N = U

For every eow $\longrightarrow print N-se$ spaces first $\longrightarrow print r$ stors

```
static void main (....) of
public
      // Initialise Scanner .....
       int N = scanner.nextInt(); // N=3
       for (int r=1; r <= N; r++) {
              // Print N-x spaces
             for (Int c = 1; < < = N-9e; C++) of
                  System.out.print (11 11);
              // Print re stors
              for (int c = 1; < < = %; < ++) f
                  System. out. print (11x11);
              System.out, println ();
                                    second loop
              N = Y
              N-le C
       H
                                   1 1 SSS *
2 12 SS**
3 123 S***
              3 123
        1
              2 12
        2
                      1
        3
               1
                                    U 1234 次次次
        U
```

```
Q10> Given N as input, Print the pattern as shown
                 N = U
                * * * * *
            * *
              * *
                        *
                           *
                              *
            *
              *
                             *
                           *
                              *
            *
                              N = Y
                              lef+*
                                     spaces right*
                        Je
                                            4
                              Y
                                     0
                         1
 * * * * * * * *
                                            3
                         2
                               3
                                      2
   * *
             * *
                   *
                                             2
                               2
                                      U
 *
                         3
   *
                  *
                *
                                             1
                         Y
                               1
                                      6
 *
                   *
                             N = Y
                             left* spaces right*
                        le
                            N-2+1
                                          N-92+1
                        1
    *
       * * * *
                 *
                                    (1-1)*2
                        2
*
  * *
             * *
                  *
                        3
* *
               * *
*
                  *
                        Y
for every now
           print
                N-k+1
                        stors
```

print 2*(1-1) spaces

print N-rett Store

```
public static void moin (....)
      // Anitialise Scanner .....
      int N = \text{scanner.nextInt()}; // N=3
      for (int k=1; k < = N; k++)
            11 Print N-x+1 story
            for (int c = 1; C <= N-8+1; C++) of
                 System-out. print ("x");
            11 Print 2* (x-1) spaces
            for (int c=1; c < = 2*(2-1); c++) {
                 System-out. print (1 ");
             // Print N-x+1 story
             for (int c = 1; C <= N-8+1; C++) of
                  System-out. print (1x1);
             System. out. println ();
                    N = U
           N-R+1 2*(R-1) N-R+1 Print
      H
      1
           2 U-2+1=3 2x(2-1)=2 Y-2+1=3 **x(5**x*)
           U-3+1=2 2#(3-1)=U U-3+1=2 ** SSSS**
      3
           4-4+1=1 2*(4-1)=6 4-4+1 =1 *515551*
      U
```

```
Q11> Given N as input, Print the pattern as shown N=U
```

```
N=U
                 lest
                            right
              r spaces stores spaces
              1 3 1
     *
                            2
             2 2
   * * *
                 1
                            1
 * * * * *
                 0 7
           Ų
* * * * * * *
                  N-se (2*se)-1 N-se
```

```
public static void main (....) {

// Anitialise Scanner .....

int N = \text{Scanner.nextInt}(); // N = 3

for (int k = 1; k = N; k + +) {

// Print N - k spaces

for (int k = 1; k = N) k + +) {

System.out.print(k = 1); k = N

// Print k = N

System.out.print(k = N);

// Print k = N

System.out.print(k = N);

// Print k = N

System.out.print(k = N);
```

```
for (intc=1; c<= N-re; c++) of

System-out. print("");

3

System.out. println();
```