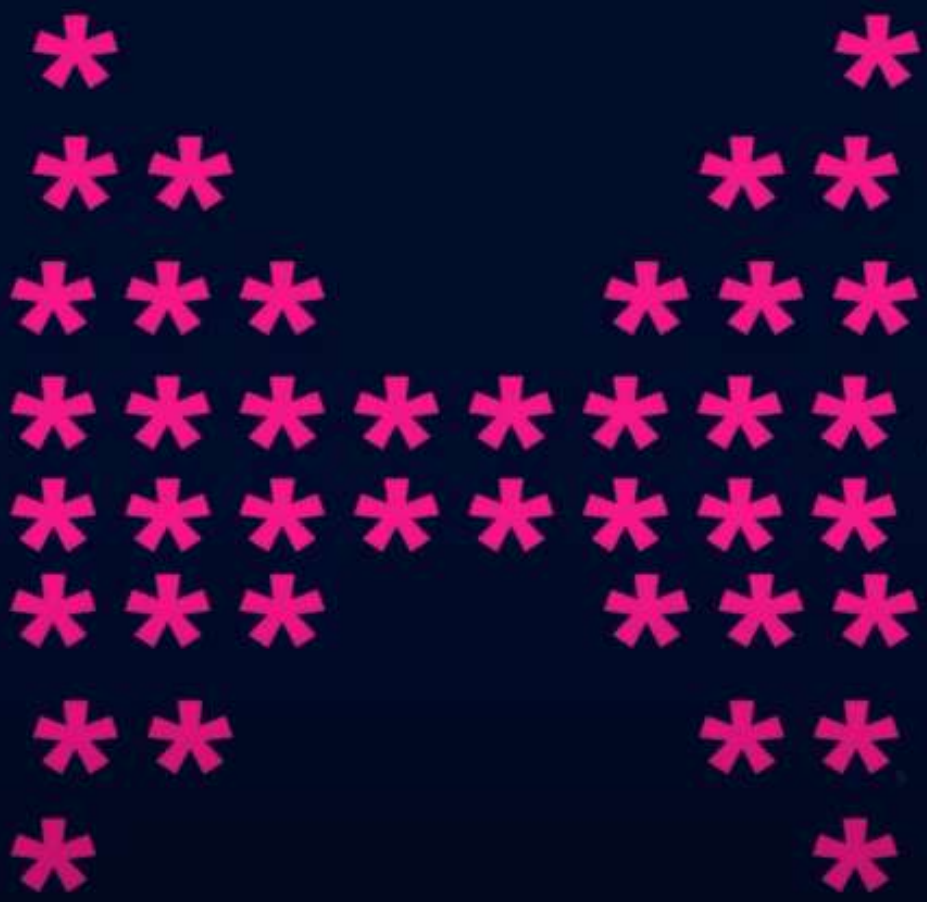
10. Print the pattern

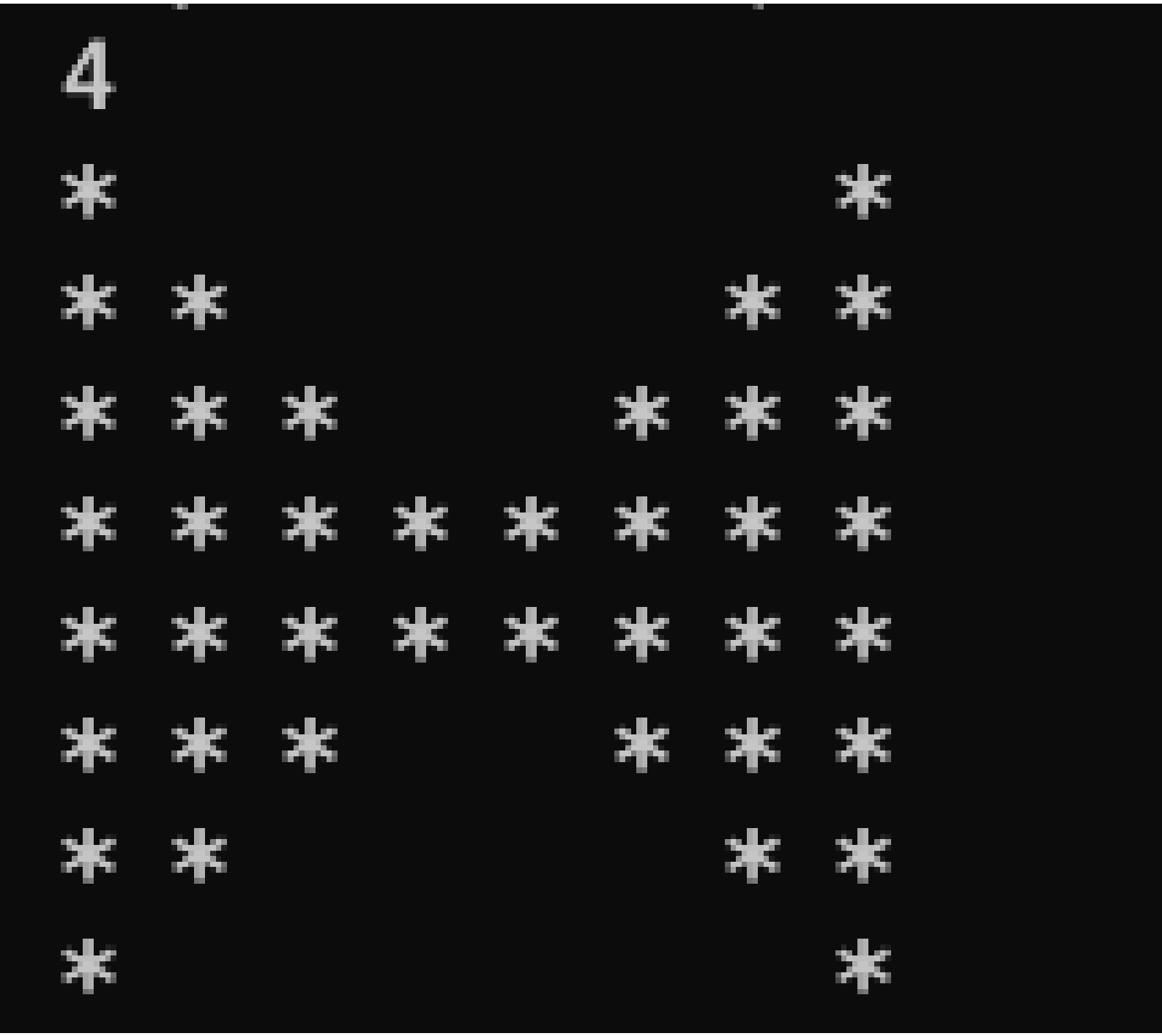
$n = 4$



ButterflyPattern.java U

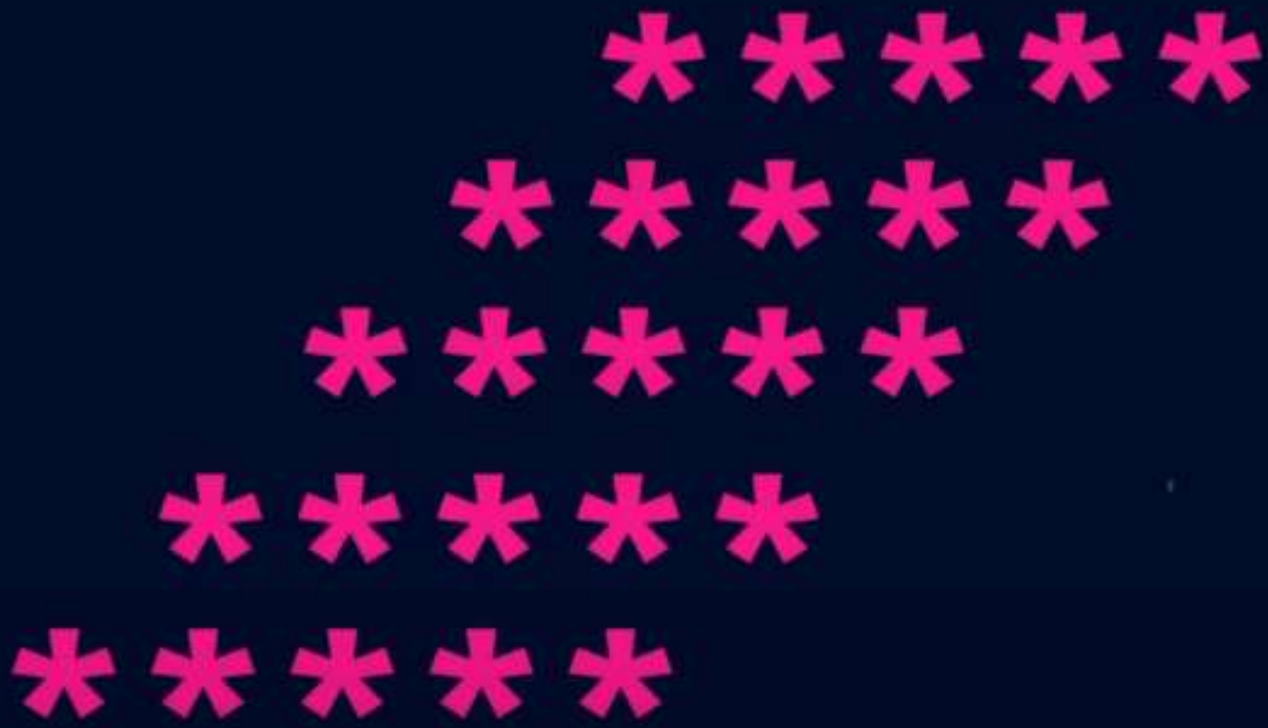
Java > Lesson-6 (Advanced Pattern Question) > ButterflyPattern.java > L

```java
import java.util.Scanner;
public class ButterflyPattern{
    Run | Debug | Run main | Debug main
    public static void main(String[] args)
    {
        @SuppressWarnings("resource")
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        for(int i=0;i<n;i++)
        {
            for(int j=0;j<n;j++)
            {
                if(j<=i)
                {
                    System.out.print(s:"* ");
                }
                else{
                    System.out.print(s:"  ");
                }
            }
            for(int j=0;j<n;j++)
            {
                if((i+j)>=n-1)
                {
                    System.out.print(s:"* ");
                }
                else{
                    System.out.print(s:"  ");
                }
            }
            System.out.println();
        }
        for(int i=0;i<n;i++)
        {
            for(int j=0;j<n;j++)
            {
                if((i+j)<n)
                {
                    System.out.print(s:"* ");
                }
                else{
                    System.out.print(s:"  ");
                }
            }
            for(int j=0;j<n;j++)
            {
                if(i<=j)
                {
                    System.out.print(s:"* ");
                }
                else{
                    System.out.print(s:"  ");
                }
            }
            System.out.println();
        }
    }
}
```


4

11. Print the pattern

n=5



SolidRhombus.java U

Java > Lesson-6 (Advanced Pattern Question) > SolidRhombus.java > Langua

```java
import java.util.Scanner;
public class SolidRhombus {
    Run | Debug | Run main | Debug main
    public static void main(String[] args) {
        @SuppressWarnings("resource")
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        for(int i=0;i<n;i++)
        {
            for(int j=
            {
                if((i+j)>=n-1)
                {
                    System.out.print(s:"* ");
                }
                else{
                    System.out.print(s:"  ");
                }
            }
            for(int j=1;j<n;j++)
            {
                if((i+j)<n)
                {
                    System.out.print(s:"* ");
                }
            }
            System.out.println();
        }
    }
}
```

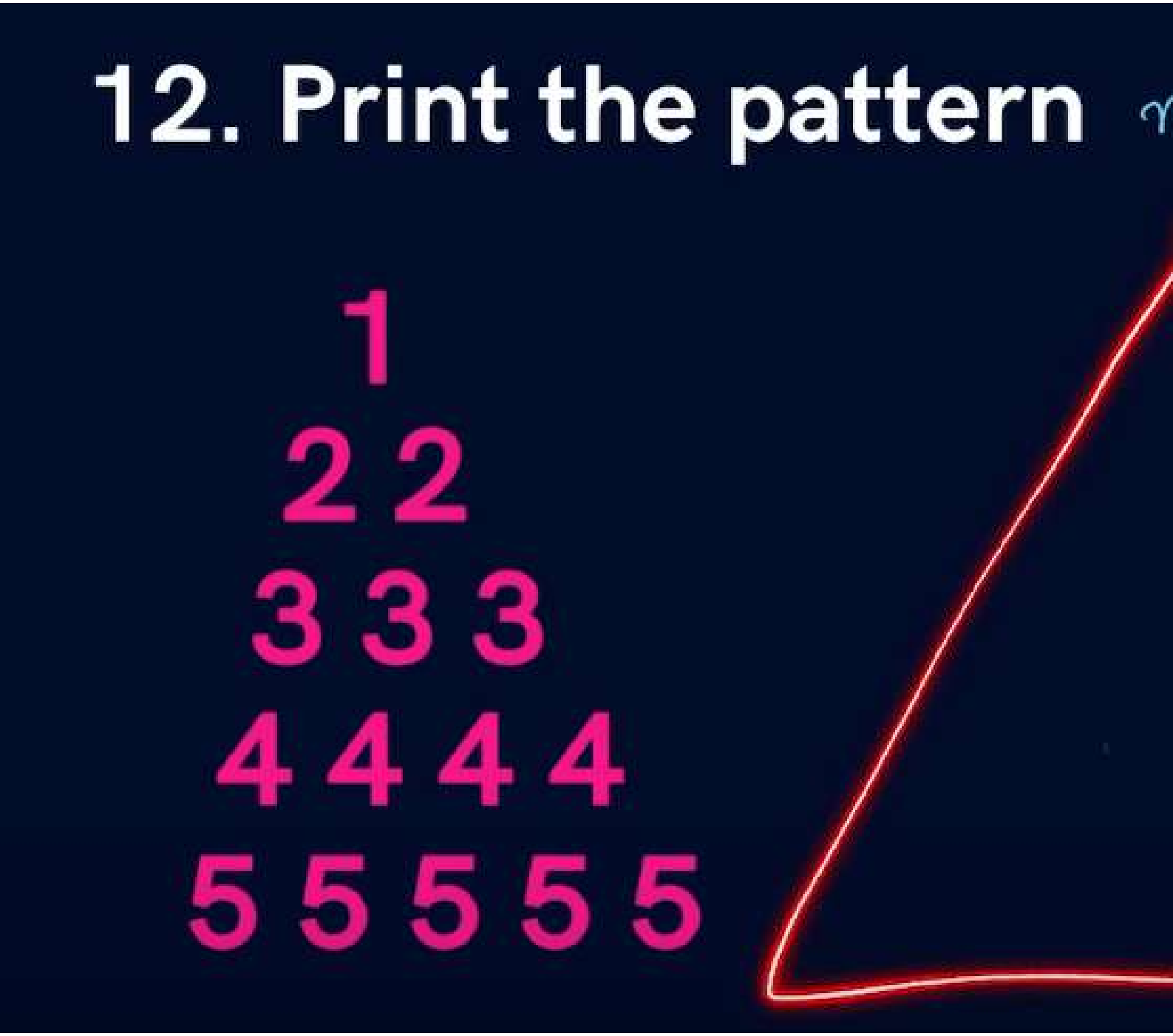
int j - SolidRhombus.main(String[])

int j

5

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

12. Print the pattern



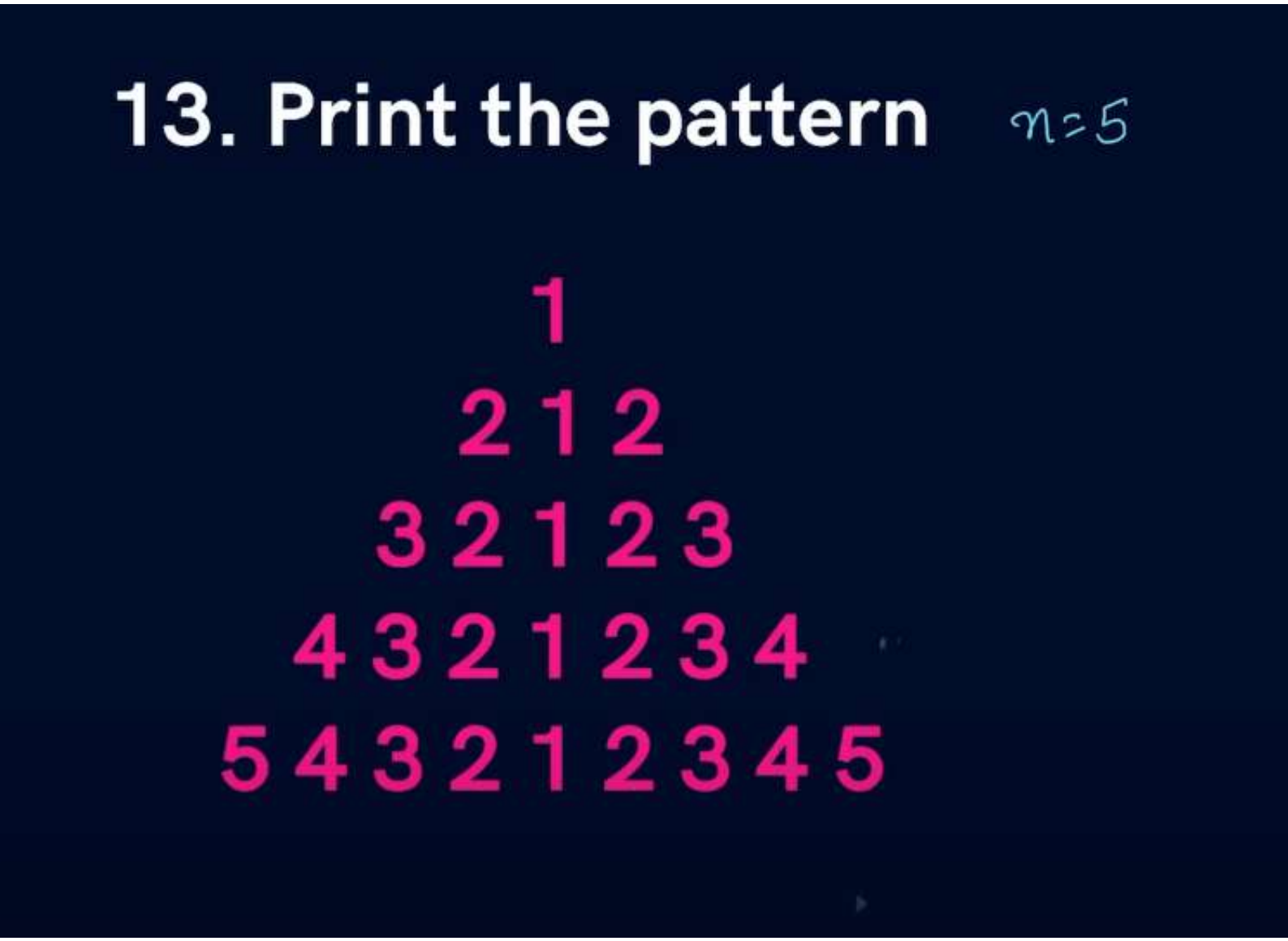
NumberPyramid.java U

Java > Lesson-6 (Advanced Pattern Question) > NumberPyramid.java

```java
import java.util.Scanner;
public class NumberPyramid {
    Run | Debug | Run main | Debug main
    public static void main(String[] args) {
        @SuppressWarnings("resource")
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        for(int i=0;i<n;i++)
        {
            for(int j=0;j<n;j++)
            {
                if((i+j)>=n-1)
                {
                    if((i+j)%2==0)
                    {
                        System.out.print((i+1)+" ");
                    }else
                    {
                        System.out.print(s:"  ");
                    }
                }else
                {
                    System.out.print(s:"  ");
                }
            }
            for(int j = 1;j<n;j++)
            {
                if(j<=i)
                {
                    if((i+j)%2==0)
                    {
                        System.out.print((i+1)+" ");
                    }else
                    {
                        System.out.print(s:"  ");
                    }
                }
            }
            System.out.println();
        }
    }
}
```

```
// Java Program to Print Pascal's Triangle
5
                1
            2       2
        3       3       3
    4       4       4       4
5       5       5       5       5
```

13. Print the pattern $n=5$



PalindromicPattern.java U

Java > Lesson-6 (Advanced Pattern Question) > PalindromicPat

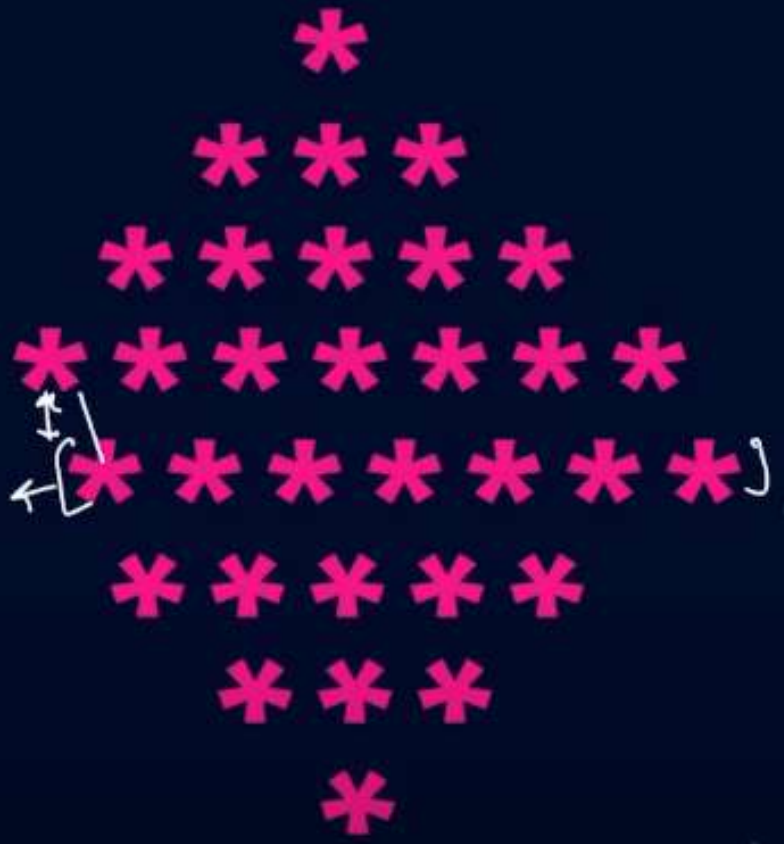
```java
import java.util.Scanner;
public class PalindromicPattern {
    Run | Debug | Run main | Debug main
    public static void main(String[] args)
    {
        @SuppressWarnings("resource")
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        for(int i=0;i<=n;i++)
        {
            for(int j=5;j>0;j--)
            {
                if(i>=j)
                {
                    System.out.print(j+" ");
                }
                else{
                    System.out.print(s:"  ");
                }
            }
            for(int j=2;j<=n;j++)
            {
                if(j<=i)
                {
                    System.out.print(j+" ");
                }
                else{
                    System.out.print(s:"  ");
                }
            }
            System.out.println();
        }
    }
}
```

```
5

        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
```

14. Print the pattern

$n = 4$



DiamondPattern.java U

Java > Lesson-6 (Advanced Pattern Question) > DiamondPattern

```
2   public class DiamondPattern {
3       public static void main(String[] args)
30                  for(int j=0;j<n;j++)
31                  {
32                      if(j>=i)
33                      {
34                          System.out.print(s:"* ");
35                      }else{
36                          System.out.print(s:"  ");
37                      }
38                  }
39                  for(int j=0;j<n;j++)
40                  {
41                      if((i+j)<n)
42                      {
43                          System.out.print(s:"* ");
44                      }
45                  }
46                  System.out.println();
47              }
48      }
49  }
50
```

4