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1(Ans). import java.util.*;
public class All_patternA_to_H {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number");
        int n = sc.nextInt();
        for (int i = 0; i < n; i++)
        {
            for (int j = 0; j < n; j++)
            {
                if (i==0 && j>0 && j < (n-1)/2 ||
                    j==0 && i>0 || i==(n-1)/2 && j<=(n-1)/2 ||
                    j==(n-1)/2 && i>0 )
                {
                    System.out.print("*");
                }
                else
                {
                    System.out.print(" ");
                }
            }
            System.out.print(" ");
            for (int j = 0; j < n; j++)
            {
                if (i==0 && j>0 && j<(n-1) || j==0 && i>0 && i<(n-1) ||
                    i==(n-1) && j<(n-1) && j>0 || i==(n-1)/2 && j>(n-1)/2 &&
                    j<n-1 || j==n-1 && i>0 && i<(n-1)/2 || j==n-1
                    && i<n-1 && i>0 && i>(n-1)/2 )
                {
                    System.out.print("*");
                }
                else
                {
                    System.out.print(" ");
                }
            }
            System.out.print(" ");
            for (int j = 0; j < n; j++)
            {
                if (i==0 && j<(n-1)/2 && j>0 || j==0 && i>0 && i<(n-1) || i==(n-1) &&
j<(n-1)/2 && j>0 )
                {
                    System.out.print("*");
                }
                else
                {
                    System.out.print(" ");
                }
            }
            System.out.print(" ");
            for (int j = 0; j < n; j++)
            {
                if ( i==0 && j<(n-1)/2 || j==0 ||
                    i==n-1 && j<(n-1)/2 || j==(n-1)/2 && i>0 && i<n-1)
            }

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        {
            System.out.print("*");
        }
        else
        {
            System.out.print(" ");
        }
    }

    System.out.print(" ");
    for (int j = 0; j < n; j++)
    {
        if ( i==0 || j==0 || i==2*(n-1)/2 || i==(n-1)/2)
        {
            System.out.print("*");
        }
        else
        {
            System.out.print(" ");
        }
    }
    System.out.print(" ");
    for (int j = 0; j < n; j++)
    {
        if (i==0 || j==0 || i==(n-1)/2)
        {
            System.out.print("*");
        }
        else
        {
            System.out.print(" ");
        }
    }
    System.out.print(" ");
    for (int j = 0; j < n; j++)
    {
        if (i==0 && j>0 && j<(n-1) ||
            j==0 && i>0 && i<(n-1) || i==(n-1) && j<(n-1) && j>0 ||
            i==(n-1)/2 && j<n-1 && j>(n-1)/2 ||
            j==n-1 && i>0 && i>(n-1)/2 && i<n-1)
        {
            System.out.print("*");
        }
        else
        {
            System.out.print(" ");
        }
    }
    System.out.print(" ");
    for (int j = 0; j < n; j++)
    {
        if ( j==0 || j==n-1 || i==(n-1)/2)
        {
            System.out.print("*");
        }
    }

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        else
        {
            System.out.print(" ");
        }
    }
    System.out.println();
}
sc.close();
}
}

```

2(Ans) . import java.util.*;

```

public class triangle_pattern {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number");
        int n = sc.nextInt();
        for (int i = 0; i < n; i++)
        {
            for (int j = 0; j < n; j++)
            {
                if (i==(n-1)/2 || i+j==(n-1)/2 || j-i==(n-1)/2)
                {
                    System.out.print("*");
                }
                else
                {
                    System.out.print(" ");
                }
            }
            System.out.println();
        }
        sc.close();
    }
}

```

3(Ans) . import java.util.*;

```

public class assignment_advance_pattern4 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number");
        int n = sc.nextInt();
        for (int i = 0; i < n; i++)
        {

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        for (int j = 0; j < n; j++)
        {
            if (i==0 && j<=(n-1)/2 || j==0 && i<=(n-1)/2
                || i+j<=(n-1)/2 || i==0 && j>=(n-1)/2 ||
                j==n-1 && i<=(n-1)/2 || j-i>=(n-1)/2 || j==0
                || j==n-1 || i==n-1)
            {
                System.out.print("*");
            }
            else
            {
                System.out.print(" ");
            }
        }
        System.out.println();
    }
    sc.close();
}
}

```

4(Ans). `import java.util.*;`

```

public class PW_SKILLS_pattern {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number");
        int n = sc.nextInt();
        for (int i = 0; i < n; i++)
        {
            for (int j = 0; j < n; j++)
            {
                if (j==0 && i>0 || i==0 && j>0 && j<n-1||
                    i==(n-1)/2 && j<n-1 || j==n-1 && i<(n-1)/2 && i>0)
                {
                    System.out.print("*");
                }
                else
                {
                    System.out.print(" ");
                }
            }
            System.out.print("\n");
            for (int j = 0; j < n; j++)
            {
                if (j==0 || j==n-1 || i==j && i>=(n-1)/2 ||
                    i+j==n-1 && i>=(n-1)/2)
                {

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        System.out.print("*");
    }
    else
    {
        System.out.print(" ");
    }
}
System.out.print("      ");
for (int j = 0; j < n; j++)
{
    if (i==0 && j>0 || i==n-1 && j<n-1 ||
        i==(n-1)/2 && j>0 && j<n-1 ||
        j==0 && i>0 && i<(n-1)/2 || j==n-1 && i>(n-1)/2 && i<n-1)
    {
        System.out.print("*");
    }
    else
    {
        System.out.print(" ");
    }
}
System.out.print("      ");
for (int j = 0; j < n; j++)
{
    if ( j==0 || i+j==(n-1)/2 || i-j==(n-1)/2 )
    {
        System.out.print("*");
    }
    else
    {
        System.out.print(" ");
    }
}
System.out.print("");
for (int j = 0; j < n; j++)
{
    if (i==0 || j==(n-1)/2 || i== 2*(n-1)/2)
    {
        System.out.print("*");
    }
    else
    {
        System.out.print(" ");
    }
}
System.out.print("      ");
for (int j = 0; j < n; j++)
{

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        if (j==0 || i==n-1)
        {
            System.out.print("*");
        }
        else
        {
            System.out.print(" ");
        }
    }
    System.out.print(" ");
    for (int j = 0; j < n; j++)
    {
        if (j==0 || i==n-1)
        {
            System.out.print("*");
        }
        else
        {
            System.out.print(" ");
        }
    }
    System.out.print(" ");
    for (int j = 0; j < n; j++)
    {
        if (i==0 && j>0 || i==n-1 && j<n-1 ||
            i==(n-1)/2 && j>0 && j<n-1 ||
            j==0 && i>0 && i<(n-1)/2 || j==n-1 && i>(n-1)/2 && i<n-1)
        {
            System.out.print("*");
        }
        else
        {
            System.out.print(" ");
        }
    }
    System.out.println();
}
sc.close();
}
}

```

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5(Ans). import java.util.*;
public class ownName {
    public static void main(String[] args) {

```

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Scanner sc = new Scanner(System.in);
System.out.println("Enter the number");
int n = sc.nextInt();
for (int i = 0; i < n; i++)
{
    for (int j = 0; j < n; j++)
    {
        if (j==0 || i+j==(n-1)/2 || i-j==(n-1)/2)
        {
            System.out.print("*");
        }
        else
        {
            System.out.print(" ");
        }
    }
    System.out.print(" ");
    for (int j = 0; j < n; j++)
    {
        if (i==0 && j>0 && j < (n-1)/2 ||
            j==0 && i>0 || i==(n-1)/2 && j<=(n-1)/2 ||
            j== (n-1)/2 && i>0 )
        {
            System.out.print("*");
        }
        else
        {
            System.out.print(" ");
        }
    }
    System.out.print(" ");
    for (int j = 0; j < n; j++)
    {
        if (j==0 && i<n-1 || i==n-1 && j>0 && j<n-1
            || j==n-1 && i<n-1)
        {
            System.out.print("*");
        }
        else
        {
            System.out.print(" ");
        }
    }
    System.out.print("   ");
    for (int j = 0; j < n; j++)
    {
        if (i==0 && j>0 || i==n-1 && j<n-1 ||
            i==(n-1)/2 && j>0 && j<n-1 ||
            j==0 && i>0 && i<(n-1)/2 || j==n-1 && i>(n-1)/2 && i<n-1)
        {
            System.out.print("*");
        }
        else
        {
            System.out.print(" ");
        }
    }
}

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    }
}
System.out.print("  ");
for (int j = 0; j < n; j++)
{
    if ( j==0 || j==n-1 || i==(n-1)/2)
    {
        System.out.print("*");
    }
    else
    {
        System.out.print(" ");
    }
}
System.out.print("  ");
for (int j = 0; j < n; j++)
{
    if (i==0 || j==(n-1)/2 || i== 2*(n-1)/2)
    {
        System.out.print("*");
    }
    else
    {
        System.out.print(" ");
    }
}
System.out.print("  ");
for (int j = 0; j < n; j++)
{
    if ( j==0 || i+j==(n-1)/2 || i-j==(n-1)/2 )
    {
        System.out.print("*");
    }
    else
    {
        System.out.print(" ");
    }
}
System.out.print("      ");
for (int j = 0; j < n; j++)
{
    if (i==0 && j>0 && j<(n-1) || j==0 && i>0 && i<(n-1) ||
    i==(n-1) && j<(n-1) && j>0 || i==(n-1)/2 && j>(n-1)/2 &&
    j<n-1 || j==n-1 && i>0 && i<(n-1)/2 || j==n-1
    && i<n-1 && i>0 && i>(n-1)/2 )
    {
        System.out.print("*");
    }
    else
    {
        System.out.print(" ");
    }
}
System.out.print("  ");
for (int j = 0; j < n; j++)

```



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{
    if (i==0 && j>0 && j < (n-1)/2 ||
        j==0 && i>0 || i==(n-1)/2 && j<=(n-1)/2 ||
        j==(n-1)/2 && i>0 )
    {
        System.out.print("*");
    }
    else
    {
        System.out.print(" ");
    }
}
System.out.print("");
for (int j = 0; j < n; j++)
{
    if (i==0 && j>0 || i==n-1 && j<n-1 ||
        i==(n-1)/2 && j>0 && j<n-1 ||
        j==0 && i>0 && i<(n-1)/2 || j==n-1 && i>(n-1)/2 && i<n-1)
    {
        System.out.print("*");
    }
    else
    {
        System.out.print(" ");
    }
}
System.out.print(" ");
for (int j = 0; j < n; j++)
{
    if (i==0 && j>0 && j < (n-1)/2 ||
        j==0 && i>0 || i==(n-1)/2 && j<=(n-1)/2 ||
        j==(n-1)/2 && i>0 )
    {
        System.out.print("*");
    }
    else
    {
        System.out.print(" ");
    }
}
System.out.print(" ");
for (int j = 0; j < n; j++)
{
    if ( j==0 || i+j==(n-1)/2 || i-j==(n-1)/2 )
    {
        System.out.print("*");
    }
    else
    {
        System.out.print(" ");
    }
}
System.out.println();
}
sc.close();

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}  
}
```