Divisors.java

```java
public class Divisors {
public static void main(String[] args)
{
int a = Integer.parseInt(args[0]);
for( int i=1; i<=a; i++)
        {if(a % i == 0)
            System.out.println(i);
        }

}
}
```

Reverse.java

```java
public class Reverse {
public static void main(String[] args)
{
String a = (args[0]);
String z = "";
int n = a.length();
int mid = a.length()/2;

for (int i=n-1; i>=0; i--)
        {char c = a.charAt(i);
             z=z+c;
        }

             System.out.println (z);
             System.out.println ("The middle character is " +
z.charAt(mid));

}

}
```

InOrder.java

```java
public class InOrder {
public static void main(String[] args)
{
int min = (int) ((Math.random () * (10-0))+0);
System.out.print (min + " ");

int num2 = (int) ((Math.random () * (10-0))+0) ;
      while (num2>min)
            {System.out.print (num2 + " ");
                   min=num2;
            num2 = (int) ((Math.random () * (10-0))+0) ;}
      }

      {
      }
```

DamkaBoard.java

```java
public class DamkaBoard {
public static void main(String[] args)
{
int num = Integer.parseInt(args[0]);
int i=0;

while (i<num)
{
     int r = 0;
     while (r<num)
     {
     if (i%2 !=0 && r == num-1)
     {
          System.out.print ("*");
}
     else
{
     System.out.print ("* ");
}
     r++;
}

     if (i%2!=0)
     {
          System.out.println ();
     }
     else
     {
          System.out.println();
          System.out.print(" ");     }

     i++;
     }
}
}
```

Perfect.java

```java
public class Perfect {
public static void main(String[] args)
{
int a = Integer.parseInt(args[0]);
String s = " ";
int sum = 0;
for(int i=1; i<a; i++)
{
      if(a % i == 0)
            {sum += +i;
            if (i==1)
                {
                    s += i;
                }

            else
                {
                    s += " + " + i;
                }
            }
}

if (sum == a)
            {System.out.println(a + " is a perfect number
since " + a + " =" + s);
      }
else
            {       System.out.println(a + " is not a perfect
number");
      }

}
}
```

OneOfEachStats.java

```java
import java.util.Random;
public class OneOfEachStats {
public static void main(String[] args)
{

// Gets the two command-line arguments
int num = Integer.parseInt(args[0]);
int seed = Integer.parseInt(args[1]);
// Initailizes a random numbers generator with the given seed
value
Random generator = new Random(seed);

boolean g = false;
boolean b = false;
double bORg = (double) ((generator.nextDouble () * (1-0))+0);
double countChild = 0;
int current=0;
int family2=0;
int family3=0;
int family4=0;

for (int i=0;i<num;i++)
{
        while (g==false || b==false)
{
        if (bORg<0.5)
                g = true;

        if (bORg>=0.5 && bORg<1 )
                b = true;


                current++;
                countChild++;
                bORg = (double) ((generator.nextDouble () * (1-
0))+0);

        }


                if (current==2)
                        family2++;
                if (current==3)
                        family3++;
                if (current>=4)
                        family4++;
                g = false;
```

```java
            b = false;
            current = 0;

}
System.out.println (" ");
double avg = countChild/num;
System.out.println("Average: " +avg+ " children to get at
least one of each gender.");
System.out.println("Number of families with 2 children: " +
family2);
System.out.println("Number of families with 3 children: " +
family3);
System.out.println("Number of families with 4 or more
children: " + family4);

if ((family2>family4) && (family2>family3))
        System.out.println ("The most common number of children
is 2.");
else
        if ((family3>family4) && (family3>family2))
        System.out.println ("The most common number of children
is 3.");
else
        System.out.println ("The most common number of children
is 4 or more.");



}
}
```