Divisors.java

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

Reverse.java

```
public class Reverse {
   public static void main (String[] args){
      String Letters = (args[0]);
      int Middle = Letters.length()/2;
      if (Letters.length()%2==0) {
            Middle = Letters.length()/2-1;
      }
      String Reverse = " ";
      for (int i = Letters.length()-1; i >= 0; i--) {
            Reverse+=""+Letters.charAt(i)+"";
            }
            System.out.println(Reverse);
            System.out.println("The middle character is "+Letters.charAt( Middle));
      }
}
```

InOrder.java

DamkaBoard.java

```
public class DamkaBoard {
   public static void main(String[] args) {
     int column = Integer.parseInt(args[0]);
     for (int i = 0; i < column; i++) {
        for (int j = 0; j < column*2; j++) {
            System.out.print((i + j) % 2 == 0 ? "*" : " ");
        }
        System.out.println();
    }
}</pre>
```

Perfect.java

```
public class Perfect {
  public static void main (String[] args) {
     String helper ="";
     String ans = "";
     int counter=0;
     int TheNumIsPerfect = Integer.parseInt(args[0]);
     for (int i = 1; i < TheNumIsPerfect; i++) {
       if (TheNumIsPerfect%i==0) {
          counter+=i;
          helper+=" "+i+" +";
     for (int j = 0; j < helper.length()-2; j++) {
          ans+=helper.charAt(j);
    if (counter==TheNumIsPerfect) {
      System.out.println(+TheNumIsPerfect+" is a perfect number since
"+TheNumIsPerfect+" ="+ans);
     }
    else{
       System.out.println(+TheNumIsPerfect+" is not a perfect number");
```

OneOfEachStats.java

```
public class OneOfEachStats {
  public static void main (String[] args) {
     int T = 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);
     String EndOfsentence = ".";
     String ans= "";
     int ConterFor2 = 0;
     int ConterFor3 = 0;
     int ConterFor4 = 0;
     int colcoltion = 0;
     char boy = 'b';
     char girl = 'g';
     int r = 0;
     for (; r < T; ++r) {
     ans="";
     boolean helper = true;
     while (helper){
          double rand = generator.nextDouble();
          ans+= (rand<0.5) ? boy : girl;
               colcoltion++;
          for (int i = 0; i < ans.length()-1; i++) {
            if(ans.length()>1){
               if (ans.charAt(i) != ans.charAt(i+1)){
                    helper=false;
            }
       if(ans.length()==2)
           ConterFor2++;
       if(ans.length()==3)
                                ///Loops that help associate
           ConterFor3++;
                                // with the relevant family quantity
       if(ans.length()>=4)
          ConterFor4++;
 double Average=((double)colcoltion/(double)T);
 int chack = Math.max(ConterFor3, ConterFor2);
 int max = Math.max(chack,ConterFor4);
 if(max==ConterFor4 ){
```