Homework2

Assignment 1: Divisors

Assignment 2: Reversing a string

Assignment 3: Lucky streak

Assignment 4: Perfect Numbers

```
public class perfect {
       public static void main(String[] args) {
               int num = Integer.parseInt(args[0]);
               int sum = 1;
               String sentence = "";
               for (int i = 2; i < num; i++) {</pre>
                       if (num%i == 0) {
                              sum = sum + i;
                              sentence = sentence + " + " + i;
               if (sum == num) {
                      System.out.println(num + " is a perfect number
since " + num + " = 1" + sentence);
              } else {
                      System.out.println(num + " is not a perfect
number");
               }
```

Assignment 5: Damka Board

Assignment 6: One of Each Stats

```
public class OneOfEachStats {
       int T = Integer.parseInt(args[0]);
       int seed = Integer.parseInt(args[1]);
       Random generator = new Random(seed);
      double sumToAverage = 0;
             int random = (int) (generator.nextDouble()*((2)+1));
            sumToAverage = sumToAverage + 1;
            sum2 = sum2 + 1;
          } else if (sum == 3) {
            sum3 = sum3 + 1;
       if (sumMax == sum2) {
      System.out.println("Average: " + sumToAverage + " children to
      System.out.println("Number of families with 2 children: " +
children: " + sum4);
      System.out.println("The most common number of children is " +
```