```
public class Reverse
       public static void main (String[] args)
              String word = args[0];
              if (args.length == 0)
                     System.out.println("Please provide a word.");
              int mid = 0;
              for (int i = word.length() - 1; i \ge 0; i--)
                     System.out.print(word.charAt(i));
              }
              System.out.println();
              int middle = word.length()/2;
              if (word.length()\%2 == 0)
              {
                     middle --;
              System.out.println("The middle character is " + word.charAt(middle));
      }
}
```

```
public class InOrder
{
    public static void main (String[] args)
    {
        int num1 = (int)(10.0 * Math.random());
        int max = num1;
        do
        {
            System.out.print(num1 + " ");
            num1 = (int)(10.0 * Math.random());
            if (num1 >= max)
            {
                  max = num1;
            }
        }
        while (num1 >= max);
    }
}
```

```
import java.util.Random;
public class OneOfEachStats
       public static void main (String[] args)
             int num = Integer.parseInt(args[0]);
             int seed = Integer.parseInt(args[1]);
               Random generator = new Random(seed);
              boolean sucsess = false;
              boolean girl = false; // smaller than 0.5
              boolean boy = false; // bigger than 0.5
             int countchild = 0;
             int countfam = 0;
              double rnd = 0;
              int fam2 = 0;
             int fam3 = 0;
             int fam4 = 0;
             int max = 2;
             for (int i = 1; i \le num; i ++)
              {
                     while (sucsess == false)
                {
                       if ((girl \&\& boy) == true)
                       {
                             break;
                       rnd = generator.nextDouble();;
                       if (rnd <= 0.5)
                            girl = true;
                            countchild ++;
                       }
                       else
                       {
                             boy = true;
                            countchild ++;
                       if ((girl \&\& boy) == true)
                        sucsess = true;
                        countfam += countchild;
                        if (countchild == 2)
                            fam2++;
                        else if (countchild == 3)
                            fam3++;
                        else fam4++;
```

```
girl = false;
                boy = false;
                sucsess = false;
                countchild = 0;
             if((fam2 >= fam3) && (fam2 >= fam4))
                    max=2;
             else if((fam3 > fam2) && (fam3 > fam4))
                    max=3;
             }
             else
             {
                    max=4;
             double avg = ((double) countfam) / num;
             System.out.println("Average: " + avg + " children to get at least one of each
gender.");
             System.out.println("Number of families with 2 children: " + fam2);
             System.out.println("Number of families with 3 children: " + fam3);
             System.out.println("Number of families with 4 or more children: " + fam4);
             System.out.println("The most common number of children is " + max +".");
      }
}
```