2.1 To the HighArray class in the highArray.java program (Listing 2.3), add a method called getMax() that returns the value of the highest key in the array, or –1 if the array is empty. Add some code in main() to exercise this method. You can assume all the keys are positive numbers.

 public void getmax()

    {

        long max=-1;

        for(int j=0; j<a.length; j++)

        {

            if(a[j]>max)

            max=a[j];

        }

        System.out.println("The max value is "+ max);

    }

2.2 Modify the method in Programming Project 2.1 so that the item with the highest key is not only returned by the method, but also removed from the array. Call the method removeMax().

public void removeMax()

    {

        long arrayMax =  a[0];

        for (int i = 0; i < nElems; i++) {

           if (a[i] > arrayMax) {

              arrayMax =  a[i];

              for (int k = i; k < nElems;k++) {

                 a[k] = a[k + 1];

                 nElems--;

                 break;

               }

            }

         }

    }