It correctly checks and finds consecutive numbers:

```
Welcome to Online IDE!! Happy Coding :)
Number checked:100
This is value stored for original element:100
This is value stored for last consecutive element:100
Number checked:4
This is value stored for original element:4
This is value stored for last consecutive element:4
Number checked:200
This is value stored for original element:200
This is value stored for last consecutive element: 200
Number checked:1
Consecutive number found:2
Consecutive number found:3
Consecutive number found:4
This is value stored for original element:1
This is value stored for last consecutive element:4
Number checked:3
Consecutive number found:4
This is value stored for original element:3
This is value stored for last consecutive element:4
Number checked:2
Consecutive number found:3
Consecutive number found:4
This is value stored for original element:2
This is value stored for last consecutive element:4
Highest streak consecutive numbers: 4
These are consecutive numbers:
2
```

```
Online Java - IDE, Code Editor, Compiler
Online Java is a quick and easy tool that helps you to build, compile, test your programs online.
*/
public class Main
  public static void main(String[] args) {
    System.out.println("Welcome to Online IDE!! Happy Coding:)");
    int []nums = new int[]{100,4,200,1,3,2}; // This is the defined array
    boolean consecutive; // this will be used to check if a consecutive number found
    int [] []consecutiveCount = new int[nums.length][4];
   // this will hold all data so that maximum can be outputted screen
    int differenceCheck=0;
    int k=0;
    int temp=0;
    int numberHighestConsecutive=0; //this will be used to output array to end user
    for (int i=0; i<nums.length;i++) // this will go through each array element
    {
      consecutive=false;
      System.out.println("\nNumber checked:"+nums[i]);
      for (int j=0;j<nums.length;j++) // this will check each number against array element i
        differenceCheck=1;
                               // consecutive number at array element j will be 1 higher
        if(j==i)
// this will ensure same array element not compared. However it will not affect outcome
        {
           j++;
        if (j!=nums.length) //to ensure execution within the array
           if (nums[j]==nums[i]+differenceCheck) //if consecutive number found to value at
element i
             System.out.println("Consecutive number found:"+nums[j]);
             j=nums.length-1; // this is to save loop execution since once it has found
//consecutive, no need to search remaining array since consecutive will hold same value
             consecutive=true; // this is to inform next loop that a consecutive found
             differenceCheck++;
// the next consecutive number is now one more greater than element i
           }
           k=nums.length;
// to save loop execution. If no consecutive numbers, this ensures the next element i
                    // can be processed
        }
        for (k=0; k<nums.length; k++)
```

```
{
           if (k==i)
// this will ensure same array element not compared. However it will not affect outcome
             k++;
           }
           if (k!=nums.length)
             // ensures next element is now one consecutive to element j.
             if (nums[k]==nums[i]+differenceCheck & consecutive==true)
           {
             System.out.println("Consecutive number found:"+nums[k]);
             differenceCheck++;
             k=0;
// this will ensure the array is checked again for any further consecutive numbers
          }
          }
        }
      }
      consecutiveCount[i][0]=differenceCheck;
//this stores the consecutive numbers for each initial array element
      consecutiveCount[i][2]=nums[i]; //this stores the initial array element examined
      System.out.println("This is value stored for original element:" + consecutiveCount[i][2]);
      consecutiveCount[i][1]=nums[i]+(differenceCheck-1);
//reduced by 1 since when last consecutive element found, coding increases
//variable by 1 for next potential search
      System.out.println("This is value stored for last consecutive element:" +
consecutiveCount[i][1]);
    }
    for (int m=0; m<consecutiveCount.length;m++)</pre>
      if (consecutiveCount[m][0]>temp)
        temp=consecutiveCount[m][0];
        numberHighestConsecutive=consecutiveCount[m][2];
// this is initial array element with highest consecutive count
```

```
}
}
System.out.println("\nHighest streak consecutive numbers: " + temp);
System.out.println("These are consecutive numbers: ");

for (int n=0; n<temp;n++)
{
    System.out.println(numberHighestConsecutive+n);
}
</pre>
```