10/3/2016 Homework Turnin

## Homework Turnin

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Section: 6G

Course: TJHSST APCS 2016–17

Assignment: 02-03

Receipt ID: db70ad90103f0185ce64f718e48daddb

## Turnin Successful!

The following file(s) were received:

```
Hailstone.java
                                (1758 bytes)
//Author:
//Date:
import java.util.*;
public class Hailstone
   private static int counter = 1;
   private static String hailstones1 = "";
   private static String hailstones2 = "";
   public static void main(String[] args)
       System.out.println("Hailstone Numbers!");
System.out.print("Enter the start value: ");
       Scanner sc = new Scanner(System.in);
       int start = sc.nextInt();
       int count = hailstone(start);
      System.out.println("hailstone(" + start + ") returns " + count + " because " + hailstones1);
System.out.println("takes " + count + " steps." );
      int count2 = hailstone(start, 1);
System.out.println("hailstone(" + start + ") returns " + count2 + " because " + hailstones2);
System.out.println("takes " + count2 + " steps." );
       //recursive, counts the steps with a variable
   public static int hailstone(int n, int count)
       if(n==1)
          hailstones2+="1";
          return count;
       élse
          if(n%2==0)
              hailstones2+=n+"-";
              count++:
              return hailstone(n/2,count);
          else
              hailstones2+=n+"-";
              return hailstone(3*n+1,count);
        //recursive, counts the steps without a variable
   public static int hailstone(int n)
       if(n==1)
```

```
{
    hailstones1+="1";
    return counter;
}
else
    if(n%2==0)
    {
        hailstones1+=n+"-";
        counter++;
        return hailstone(n/2);
}
else
    {
        hailstones1+=n+"-";
        counter++;
        return hailstone(3*n+1);
     }
}
```

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