## Chapter 5 Programming 2

**5.41:** just made a for loop to fill each element to the fifth after that I made a big enhanced for loop to go through each element to see what pattern would work.

Answer

```
Good job! 19^5 43^5 46^5 47^5 67^5 = 72^5
```

**5.44:** checked the code given to me and found out the BigOh time was N it was linear for both methods.

```
System.out.println(makeLongString1(6));
System.out.println(makeLongString2(4));
    //both linear looking through it once only. BigOh run time is N
}
//5.44
public static String makeLongString1( int N )
{
String result = "";
for( int i = 0; i < N; i++ )
result += "x";
return result;
}
public static String makeLongString2( int N )
{
StringBuilder result = new StringBuilder( "" );
for( int i = 0; i < N; i++ )
result.append( "x" );
return new String( result );
}</pre>
```

## Answer

