StringArrayStats.java

```java
package loops_and_arrays;

public class StringArrayStats
{
        /** length of the shortest String(s) in the array */
        protected int minStringLength,
        /** length of the longest String(s) in the array */
        maxStringLength,
        /** the index in the array of that first shortest String */
        indexFirstMin,
        /** the index in the array of that last shortest String */
        indexLastMin,
        /** the index in the array of that first largest String */
        indexFirstMax,
        /** the index in the array of that last largest String */
        indexLastMax;
        /** the first String in the array that has the shortest length */
        String firstStringWithMinLength,
        /** the last String in the array that has the shortest length */
        lastStringWithMinLength,
        /** the first String in the array that has the largest length */
        firstStringWithMaxLength,
        /** the last String in the array that has the largest length */
        lastStringWithMaxLength;
        /** average length of all the Strings */
        protected double averageLength,
        /** the median length of all the Strings */
        medianLength;

        public StringArrayStats(String[] array)
        {
                minStringLength = array[0].length();
                maxStringLength = array[0].length();
                indexFirstMin = 0;
                indexLastMin = 0;
                indexFirstMax = 0;
                indexLastMax = 0;
                firstStringWithMinLength = array[array.length - 1];
                lastStringWithMinLength = array[0];
                firstStringWithMaxLength = array[array.length - 1];
                lastStringWithMaxLength = array[0];
        }

        public String toString()
        {
                return String.format(minStringLength + maxStringLength
                                + indexFirstMin + indexLastMin + indexFirstMax
                                + indexLastMax + firstStringWithMinLength
```

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                + lastStringWithMinLength
                + firstStringWithMaxLength
                + lastStringWithMaxLength);

        }
}
```