

Array Processing Code

<i>create an array with random values</i>	<pre>double[] a = new double[N]; for (int i = 0; i < N; i++) a[i] = Math.random();</pre>
<i>print the array values, one per line</i>	<pre>for (int i = 0; i < N; i++) System.out.println(a[i]);</pre>
<i>find the maximum of the array values</i>	<pre>double max = Double.NEGATIVE_INFINITY; for (int i = 0; i < N; i++) if (a[i] > max) max = a[i];</pre>
<i>compute the average of the array values</i>	<pre>double sum = 0.0; for (int i = 0; i < N; i++) sum += a[i]; double average = sum / N;</pre>
<i>copy to another array</i>	<pre>double[] b = new double[N]; for (int i = 0; i < N; i++) b[i] = a[i];</pre>
<i>reverse the elements within an array</i>	<pre>for (int i = 0; i < N/2; i++) { double temp = b[i]; b[i] = b[N-1-i]; b[N-1-i] = temp; }</pre>