```bash
#!/bin/bash
# this script will run each sort on our data and
# then place the results in
# the results directory by appending each run of
# an algorithm's output to the end of each respective
# test's file.
#
# Just look in the results directory.  The way it's laid
# out should make plenty of sense
#
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for i in  "1" "2" "3";
do
        for j in  "Merge" "Insertion" "QSort";
        do
                for x in "random" "sorted" "reverse";
                do
                        for k in $( ls values | sort -n);
                        do
                                # I had to use -X300M because the stack was
                                # overflowing when I would do quicksort on
                                # large sorted lists.
                                #
                                # If you don't have enough memory to call this
                                # you could change 300M to 200M or something
                                # more reasonable
                                echo doing java -Xss300M $j data/$x/$k $k
                                echo storing in results/$j/$x/test$i
                                echo _____
                                java -Xss300M $j data/$x/$k $k >> results/$j/$x/test$i
                        done
                done
                echo "Generating new inputs for next test..."
                ./generateInput
        done
done
```