```bash
#!/bin/bash

# this script generates a lot of random data
# It puts all of it in several directories.  The
# ones that need to be sorted are and that is that.

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# actually get all the random numbers from the getRandoms
# Java Class and put them in the proper directories.
for typeOfSort in {"random","sorted","reverse"};
do
        for i in $( ls values/);
        do
                java getRandoms $i > data/$typeOfSort/$i
        done
done

# sort the data for the sorted tests
# we enter the directory and sort every file
# in it.
cd data/sorted
for i in $( ls | sort -g)
do
        temp=$i
        echo sorting:   data/sorted/$temp
        # a temp file is used because it didn't want to work
        # correctly if I piped the file being sorted back to
        # itself.
        sort -g $i > temp
        mv temp $i
done
echo -------------------------------------
cd ..

# sort the date for the reverse sort tests
# We enter the directory and sort everything in
# it backwards.  It's the same idea as above.
cd reverse
for i in $( ls | sort -g)
do
        temp=$i
        echo reverse sorting:   data/reverse/$temp
        sort -gr $i > temp
        mv temp $i
done
cd ../..

#sorting is completed and data has been generated, so we are done.
echo done!
```