

```
#!/bin/bash

# file: activity.sh
# author: Wesely Anastasi
# course: CSI 3336
# due date: 2/13/2024
#
# date modified: 2/13/2024
# - File Created
#
# This script reports the number of files in a directory that have been modified in the last 24
hours, the last 7 days, and longer than 7 days ago.

if [[ $# -eq 0 ]]
then
>&2 echo "Usage: $0 <folder_path>"
exit 1
fi

if [[ ! -d $1 ]]
then
>&2 echo "Error: $1 is not a directory"
exit 1
fi

activeFileSize=0
recentFileSize=0
idleFileSize=0
numActiveFiles=0
numRecentFiles=0
numIdleFiles=0

for file in $(find $1 -type f)
do
if [[ $(stat -c %Y $file) -gt $(date -d "now - 1 day" +%s) ]] #If file was modified in the last 24
hours
then
activeFileSize=$((activeFileSize + $(stat -c %s $file)))
numActiveFiles=$((numActiveFiles + 1))
elif [[ $(stat -c %Y $file) -gt $(date -d "now - 7 day" +%s) ]] #If file was modified in the last 7
days
then
recentFileSize=$((recentFileSize + $(stat -c %s $file)))
numRecentFiles=$((numRecentFiles + 1))
else #If file was modified more than 7 days ago
idleFileSize=$((idleFileSize + $(stat -c %s $file)))
numIdleFiles=$((numIdleFiles + 1))

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fi
done
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echo "active: $numActiveFiles ($activeFileSize bytes)"
echo "recent: $numRecentFiles ($recentFileSize bytes)"
echo "idle: $numIdleFiles ($idleFileSize bytes)"
```

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#!/bin/bash
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```
# file: genRandom.sh
# author: Wesely Anastasi
# course: CSI 3336
# due date: 2/13/2024
#
# date modified: 2/13/2024
# - File Created
#
# This script generates a specified number of random numbers within a specified range.
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numValues=10
lowerBound=0
upperBound=9999
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```
if [[ $# -ge 1 ]] # If there is at least one argument
then
numValues=$1
fi
```

```
if [[ $# -ge 2 ]] # If there is at least two arguments
then
lowerBound=$2
fi
```

```
if [[ $# -ge 3 ]] # If there is at least three arguments
then
upperBound=$3
fi
```

```
for i in $(seq 1 $numValues)
do
echo $((RANDOM % ($upperBound - $lowerBound + 1) + $lowerBound))
done
```