

```
1  #! /bin/sh
2  #
3  #
4  # exercise 2a
5  MASTER=MasterList
6
7  # exercise 5a
8  GENMASTER="no"
9
10 # exercise 3a
11 TMP=/tmp/$$
12 > $TMP
13
14 # exercise 5b
15 for i in "$@"
16 do
17     case "$i" in
18         -g) GENMASTER=yes    ;;
19         esac
20 done
21
22 if [ "$GENMASTER"x = yesx ]
23 then
24     if [ -e "$MASTER" ]
25     then
26         echo "$MASTER exists; please delete it" 1>&2
27         exit 1
28     else
29         > "$MASTER"
30     fi
31     #
32     for i in *
33     do
34         if [ ! -f "$i" -o "$i"x = "$MASTER"x ]
35         then
36             continue
37         fi
38         echo `ls -sail "$i"` `shasum "$i"` >> "$MASTER"
39     done
40     exit 0
41 fi
```

```
42
43 # exercise 3e
44 if [ ! -f "$MASTER" ]
45 then
46     echo "Master file does not exist; please generate it" 1>&2
47     exit 1
48 fi
49
50 for i in *
51 do
52     # exercise 3b
53     if [ "$i" = "$TMP" ]
54     then
55         continue
56     fi
57     # exercise 2c
58     if [ "$i" = "$MASTER" -o ! -f "$i" ]
59     then
60         continue
61     fi
62     # exercise 3c
63     echo `ls -sail "$i"` `shasum "$i"` >> $TMP
64 done
65
66 # exercise 3d, with the modification given in exercise 4
67 echo "Changed files:"
68 diff "$MASTER" "$TMP" | grep '^(<|>)' | awk '{ print $NF }' | sort | uniq
69 # exercise 3f
70 rm $TMP
71 exit 0
72
```