

```
1  #! /bin/sh
2  #
3  #
4  # exercise 2a
5  MASTER=MasterList
6
7  # exercise 5a
8  GENMASTER="no"
9
10 # exercise 5d
11 DELMASTER="no"
12
13 # exercise 3a
14 TMP=/tmp/$$
15 > $TMP
16
17 # exercise 5b
18 for i in "$@"
19 do
20     case "$i" in
21         -g) GENMASTER=yes    ;;
22         # next two lines are for exercise 5e
23         -d) DELMASTER=yes    ;;
24         *)  echo "Unknown option $i" 1>&2
25             exit 1            ;;
26     esac
27 done
28
29 #
30 # if delete master, do so and exit
31 # exercise 5f
32 if [ "$DELMaster" = 'yes' ]
33 then
34     if [ -e "$MASTER" ]
35     then
36         rm "$MASTER"
37         exit 0
38     else
39         echo "Master file does not exist; please generate it" 1>&2
40         exit 1
41     fi
```

```
42 fi
43
44 if [ "$GENMASTER"x = yesx ]
45 then
46     if [ -e "$MASTER" ]
47     then
48         echo "$MASTER exists; please delete it" 1>&2
49         exit 1
50     else
51         > "$MASTER"
52     fi
53     #
54     for i in *
55     do
56         if [ ! -f "$i" -o "$i"x = "$MASTER"x ]
57         then
58             continue
59         fi
60         echo `ls -sail "$i"` `shasum "$i"` >> "$MASTER"
61     done
62     exit 0
63 fi
64
65 if [ ! -f "$MASTER" ]
66 then
67     echo "Master file does not exist; please generate it" 1>&2
68     exit 1
69 fi
70
71 # exercise 3e
72 if [ ! -f "$MASTER" ]
73 then
74     echo "Master file does not exist; please generate it" 1>&2
75     exit 1
76 fi
77
78 for i in *
79 do
80     # exercise 3b
81     if [ "$i" = "$TMP" ]
82     then
```

```
83         continue
84     fi
85     # exercise 2c
86     if [ "$i" = "$MASTER" -o ! -f "$i" ]
87     then
88         continue
89     fi
90     # exercise 3c
91     echo `ls -sail "$i" ` `shasum "$i" ` >> $TMP
92 done
93
94 # exercise 3d, with the modification given in exercise 4
95 echo "Changed files:"
96 diff "$MASTER" "$TMP" | grep '^(<|>)' | awk '{ print $NF }' | sort | uniq
97 # exercise 3f
98 rm $TMP
99 exit 0
100
```