

```
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 $i" 1>&2
25             exit 1            ;;
26     esac
27 done
28
29 #
30 # sanity check: only one of -d, -g
31 # exercise 5g
32 if [ "$DELMaster" = 'yes' -a "$GENMASTER" = 'yes' ]
33 then
34     echo "Only one of -d, -g allowed" 1>&2
35     exit 1
36 fi
37
38
39 #
40 # if delete master, do so and exit
41 # exercise 5f
```

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

```
83 do
84     # exercise 3b
85     if [ "$i" = "$TMP" ]
86     then
87         continue
88     fi
89     # exercise 2c
90     if [ "$i" = "$MASTER" -o ! -f "$i" ]
91     then
92         continue
93     fi
94     # exercise 3c
95     echo `ls -sail "$i"` `shasum "$i"` >> $TMP
96 done
97
98 # exercise 3d, with the modification given in exercise 4
99 echo "Changed files:"
100 diff "$MASTER" "$TMP" | grep '^(<|>)' | awk '{ print $NF }' | sort | uniq
101 # exercise 3f
102 rm $TMP
103 exit 0
104
```