

```
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 $i" 1>&2
25             exit 1            ;;
26     esac
27 done
28
29 if [ "$GENMASTER"x = yesx ]
30 then
31     if [ -e "$MASTER" ]
32     then
33         echo "$MASTER exists; please delete it" 1>&2
34         exit 1
35     else
36         > "$MASTER"
37     fi
38     #
39     for i in *
40     do
41         if [ ! -f "$i" -o "$i"x = "$MASTER"x ]
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42         then
43             continue
44         fi
45         echo `ls -sail "$i"` `shasum "$i"` >> "$MASTER"
46     done
47     exit 0
48 fi
49
50 # exercise 3e
51 if [ ! -f "$MASTER" ]
52 then
53     echo "Master file does not exist; please generate it" 1>&2
54     exit 1
55 fi
56
57 for i in *
58 do
59     # exercise 3b
60     if [ "$i" = "$TMP" ]
61     then
62         continue
63     fi
64     # exercise 2c
65     if [ "$i" = "$MASTER" -o ! -f "$i" ]
66     then
67         continue
68     fi
69     # exercise 3c
70     echo `ls -sail "$i"` `shasum "$i"` >> $TMP
71 done
72
73 # exercise 3d, with the modification given in exercise 4
74 echo "Changed files:"
75 diff "$MASTER" "$TMP" | grep '^(<|>)' | awk '{ print $NF }' | sort | uniq
76 # exercise 3f
77 rm $TMP
78 exit 0
79
```