```
jasmin@ubuntu:~$ touch f{1..4}
jasmin@ubuntu:~$ echo -e "orange\napple\nbanana\napple" > f1
jasmin@ubuntu:~$ echo -e "orange\napple\ncherry\napple" > f2
jasmin@ubuntu:~$ cat f1
orange
apple
banana
apple
jasmin@ubuntu:~$ find f2
f2
jasmin@ubuntu:~$ file f1
f1: ASCII text
jasmin@ubuntu:~$ sort f1 > f3
jasmin@ubuntu:~$ sort f2 > f4
jasmin@ubuntu:~$ cat f3
apple
apple
banana
orange
jasmin@ubuntu:~$ cmp -b f3 f4
f3 f4 differ: byte 13, line 3 is 142 b 143 c
jasmin@ubuntu:~$ sed 's/cherry/banana/g' f4 | sudo tee f4
[sudo] password for jasmin:
apple
apple
banana
orange
jasmin@ubuntu:~$ cat f4
apple
apple
banana
orange
jasmin@ubuntu:~$ diff -s f3 f4
Files f3 and f4 are identical
jasmin@ubuntu:~$ paste f3 f4 > f5
jasmin@ubuntu:~$ cat f5
apple    apple
apple    apple
banana  banana
orange  orange
jasmin@ubuntu:~$ touch f6
jasmin@ubuntu:~$ cut -b 1-6 f5 | sudo tee f6
[sudo] password for jasmin:
apple
apple
banana
orange
jasmin@ubuntu:~$ cat f6
apple
apple
banana
orange
```

```
jasmin@ubuntu:~$ wc --words f6
4 f5
jasmin@ubuntu:~$ grep -c apple f6
2
jasmin@ubuntu:~$ cat > r
1 Adore Varian
2 Nancee Merrell
3 Herta Friett
jasmin@ubuntu:~$ cat > r1
1 New York
2 Finger Lakes
3 Tier
jasmin@ubuntu:~$ join r r1
1 Adore Varian New York
2 Nancee Merrell Finger Lakes
3 Herta Friett Tier
jasmin@ubuntu:~$ od r
0000000 020061 062101 071157 020145 060526 064562 067141 031012
0000020 047040 067141 062543 020145 062515 071162 066145 005154
0000040 020063 062510 072162 020141 071106 062551 072164 000012
0000057
jasmin@ubuntu:~$ df
Filesystem     1K-blocks     Used Available Use% Mounted on
udev            1967912        0   1967912   0% /dev
tmpfs            399508     1824    397684   1% /run
/dev/sda5      25152772 12592452  11259584  53% /
tmpfs           1997540        0   1997540   0% /dev/shm
tmpfs              5120        4      5116   1% /run/lock
tmpfs           1997540        0   1997540   0% /sys/fs/cgroup
/dev/loop0          128      128         0 100% /snap/bare/5
/dev/loop1        56832    56832         0 100% /snap/core18/2253
/dev/loop2        56960    56960         0 100% /snap/core18/2284
/dev/loop4       224256   224256         0 100% /snap/gnome-3-34-1804/72
jasmin@ubuntu:~$ mktemp
/tmp/tmp.IuGhU9f4km
jasmin@ubuntu:~$ du
4       ./.mozilla/firefox/Crash Reports/events
24      ./.mozilla/firefox/Crash Reports
4       ./.mozilla/firefox/Pending Pings
8       ./.mozilla/firefox/sgwv0mh7.default
268     ./.mozilla/firefox/wmcu6srk.default-release/datareporting/archived/2022-02
272     ./.mozilla/firefox/wmcu6srk.default-release/datareporting/archived
4       ./.mozilla/firefox/wmcu6srk.default-release/datareporting/glean/events
4       ./.mozilla/firefox/wmcu6srk.default-release/datareporting/glean/pending_pings
4       ./.mozilla/firefox/wmcu6srk.default-release/datareporting/glean/tmp
12      ./.mozilla/firefox/wmcu6srk.default-release/datareporting/glean/db
28      ./.mozilla/firefox/wmcu6srk.default-release/datareporting/glean
504     ./.mozilla/firefox/wmcu6srk.default-release/datareporting
1360    ./.mozilla/firefox/wmcu6srk.default-release/gmp-gmpopenh264/1.8.1.1
1364    ./.mozilla/firefox/wmcu6srk.default-release/gmp-gmpopenh264
4       ./.mozilla/firefox/wmcu6srk.default-release/crashes/events
12      ./.mozilla/firefox/wmcu6srk.default-release/crashes
```

```
16      ./.mozilla/firefox/wmcu6srk.default-release/storage/default/https+++allcalc.ru/ls
24      ./.mozilla/firefox/wmcu6srk.default-release/storage/default/https+++allcalc.ru
16      ./.mozilla/firefox/wmcu6srk.default-release/storage/default/https+++binary2hex.ru/ls
24      ./.mozilla/firefox/wmcu6srk.default-release/storage/default/https+++binary2hex.ru
4       ./.mozilla/firefox/wmcu6srk.default-release/storage/default/https++
+losst.ru/idb/993782502OBNDE__KSDISG_NLA.files
52      ./.mozilla/firefox/wmcu6srk.default-release/storage/default/https+++losst.ru/idb
20      ./.mozilla/firefox/wmcu6srk.default-release/storage/default/https+++losst.ru/ls
80      ./.mozilla/firefox/wmcu6srk.default-release/storage/default/https+++losst.ru
jasmin@ubuntu:~$ cat > 1.c
int main(void)
{
long long x;
long long c;
int a;
int b = 0;
while (scanf("%lld", &x) != EOF) {
b = 0;
for (int i = 0; i <= 9; i++) {
c = abs(x);
while (c > 0) {
a = c % 10;
c = c / 10;
if (a == i) {
b = b + 1;
break;
}
}
}
if (b == 10) {
printf("False\n");
} else {
printf("True\n");
}
}
return 0;
}
jasmin@ubuntu:~$ indent -kr 1.c
jasmin@ubuntu:~$ cat 1.c
int main(void)
{
    long long x;
    long long c;
    int a;
    int b = 0;
    while (scanf("%lld", &x) != EOF) {
        b = 0;
        for (int i = 0; i <= 9; i++) {
            c = abs(x);
            while (c > 0) {
                a = c % 10;
                c = c / 10;
```

```
                if (a == i) {
                    b = b + 1;
                    break;
                }
            }
        }
        if (b == 10) {
            printf("False\n");
        } else {
            printf("True\n");
        }
    }
    return 0;
}
```
jasmin@ubuntu:~$ md5sum 1.c
784f6995c120adda24fa84df273812b6 1.c
jasmin@ubuntu:~$ touch f1 f2
jasmin@ubuntu:~$ echo -e "apple\nbanana" > f1
jasmin@ubuntu:~$ echo -e "apple\ncherry" > f2
jasmin@ubuntu:~$ comm f1 f2
                apple
banana
        cherry