

```
grep '^[^:]' /etc/passwd | cut -d: -f1 | sort
```

```
localhost:~# cat /etc/passwd | cut -d ":" -f 1 | sort
adm
at
bin
cron
cyrus
daemon
dhcp
ftp
games
guest
halt
lp
mail
man
news
nobody
ntp
operator
postmaster
root
shutdown
smmsp
squid
sshd
svn
sync
uucp
vpopmail
xfs
localhost:~#
```

```
cat /etc/protocols | awk '{print $2, $1}' | sort -nr | head -n5
```

```
localhost:~# cat /etc/protocols | awk '{print $2, $1}' | sort -nr | head -n 5
103 pim
98 encap
94 ipip
89 ospf
81 vmtp
localhost:~#
```

```
#!/bin/bash
string=""
string+=$1
string+="|"
length=${#string}
str1=""
for (( i=0; i < length - 2; i++ ))
do
str1+="-"
done
str1+="+"
echo $str1
echo "$string"
echo $str1
```

```
localhost:~# ./banner "I love MIREA"
+-----+
| I love MIREA |
+-----+
```

```
#!/bin/bash
cat "$1" | tr -c "abcdefghijklmnopqrstuvwxyz" " " | xargs | tr " " "\n" | sort -u |
xargs
```

```
localhost:~# ./identificators hello.c
h hello include int main n printf return stdio void world
```

```
#!/bin/bash
touch "$1"
chmod +x "$1"
cp "$1" /usr/local/bin
```

```
localhost:~# ./reg banner
localhost:~# ls -l /usr/local/bin
total 4404
-rwxr-xr-x  1 root    root          0 Sep  9 09:16 banner
-rwxr-xr-x  1 root    root    42500 Jul  5 2020 export_file
```

```
#!/bin/bash
if [[ "$1" =~ \.c$|\.js$|\.py$ ]]; then
    first_line=$(head -n 1 "$1")
    if [[ "$1" =~ \.c$|\.js$ ]]; then
        if [[ "$first_line" =~ ^[:space:]*// ]] || [[ "$first_line" =~ ^[:space:]*/* ]]; then
            echo "Комментарий найден в $1"
        else
            echo "Комментарий отсутствует в $1"
        fi
    elif [[ "$1" =~ \.py$ ]]; then
        if [[ "$first_line" =~ ^[:space:]*# ]]; then
            echo "Комментарий найден в $1"
        else
            echo "Комментарий отсутствует в $1"
        fi
    fi
else
    echo "Файл должен иметь расширение .c, .js или .py"
fi
```

```
localhost:~# ./comm test_file.c
Комментарий найден в test_file.c
localhost:~# ./comm hello.c
Комментарий отсутствует в hello.c
```

```
#!/bin/bash
find "$1" -type f | while read -r file; do
    sha256sum "$file"
done | sort | uniq -w64 -d
```

```
localhost:~# ./duplicate /usr/local/bin
e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855 /usr/local/bin/dub
localhost:~# ls -l /usr/local/bin
total 4404
-rw-r--r-- 1 root root 0 Sep 9 09:41 dub
-rw-r--r-- 1 root root 0 Sep 9 09:41 dub2
-rwxr-xr-x 1 root root 42500 Jul 5 2020 export_file
-rwxr-xr-x 1 root root 325844 Jul 6 2020 ffasnldump
-rwxr-xr-x 1 root root 205012 Aug 17 2020 fldev
lrwxrwxrwx 1 root root 6 Jul 5 2020 qe -> qemacs
-rwxr-xr-x 1 root root 712292 Jul 5 2020 qemacs
-rwxr-xr-x 1 root root 1045720 Jul 5 2020 qjs
-rwxr-xr-x 1 root root 816284 Jul 5 2020 qjsc
lrwxrwxrwx 1 root root 3 Jul 5 2020 qjscalc -> qjs
lrwxrwxrwx 1 root root 11 Jul 5 2020 set_import_dir -> export_file
-rwxr-xr-x 1 root root 13404 Nov 21 2020 settime
-rwxr-xr-x 1 root root 267584 Jul 5 2020 tcc
-rwxr-xr-x 1 root root 678504 Jan 9 2021 temu
-rwxr-xr-x 1 root root 50268 Jul 5 2020 tinypi
-rwxr-xr-x 1 root root 45636 Jul 5 2020 vfagent
-rwxr-xr-x 1 root root 35304 Jul 5 2020 vflogin
-rwxr-xr-x 1 root root 204336 Jul 5 2020 vfsync
-rwxr-xr-x 1 root root 24360 Jul 5 2020 vmtime
```

```
#!/bin/bash
dir="$1"
ext="$2"
archive="archive.tar"
find "$dir" -type f -name "$*$ext" | tar -cf "$archive" -T -
```

```
localhost:~# ./archive /usr/local/bin .txt
```

```
localhost:~# tar -tf archive.tar
```

```
usr/local/bin/1.txt
```

```
usr/local/bin/2.txt
```

```
usr/local/bin/3.txt
```

```
#!/bin/bash
```

```
sed 's/      /\t/g' "$1" > "$2"
```

```
localhost:~# ./sp 1.txt 2.txt
```

```
localhost:~#
```

```
GNU nano 4.9.3
```

```
1.txt
```

```
1 1
```

```
GNU nano 4.9.3
```

```
2.txt
```

```
1 1
```

```
#!/bin/bash
```

```
find "$1" -type f -name "*.txt" -exec test ! -s {} \; -print
```

```
localhost:~# ./empty ~/
```

```
/root/.mozilla/firefox/j4k7jsk5.default-default/SecurityPreloadState.txt
```

```
/root/.mozilla/firefox/j4k7jsk5.default-default/AlternateServices.txt
```

```
/root/.mozilla/firefox/j4k7jsk5.default-default/TRRBlacklist.txt
```

```
/root/1.txt
```

```
localhost:~#
```