

Loops

 coursera.org/learn/linux-tools-for-developers/supplement/yCeQF/loops

bash permits several looping structures. They are best illustrated by examples.

for

```
for file in $(find . -name "*.o")
do
    echo "I am removing file: $file"
    rm -f "$file"
done
```

which is equivalent to:

```
$ find . -name "*.o" -exec rm {} ';' 
```

or

```
$ find . -name "*.o" | xargs rm
```

Press ESC to exit the code block at any time

showing use of the **xargs** utility.

while

```
#!/bin/sh
```

```
ntry_max=4 ; ntry=0 ; password=' '
```

```
while [[ $ntry -lt $ntry_max ]] ; do
```

```
    ntry=$(( $ntry + 1 ))
```

```
    echo -n 'Give password: '
```

```
    read password
```

```
    if [[ $password == "linux" ]] ; then
```

```
        echo "Congratulations: You gave the right password on try $ntry!"
```

```
        exit 0
```

```
    fi
```

```
    echo "You failed on try $ntry; try again!"
```

```
done
```

```
echo "you failed $ntry_max times; giving up"
```

```
exit -1
```

until

```
#!/bin/sh

ntry_max=4 ; ntry=0 ; password=' '

until [[ $ntry -ge $ntry_max ]] ; do

    ntry=$(( $ntry + 1 ))

    echo -n 'Give password: '

    read password

    if [[ $password == "linux" ]] ; then

        echo "Congratulations: You gave the right password on try $ntry!"

        exit 0

    fi

    echo "You failed on try $ntry; try again!"

done

echo "you failed $ntry_max times; giving up"

exit -1
```