

COMP2041 Week 4 Tutorial

hashbang

Question 1

Shell script is executed by a separate shell so it does not affect its parent shell. Do `./cd_up.sh` instead.

Question 2

```
for f in "$@"
do
    sed -i '' 's/COMP2041/COMP2041/g;s/COMP9041/COMP9041/g' "$f"
done
```

Question 3

```
for f in "$@"
do
    if [ -d "$f" ]
    then
        ./update_course_code.sh "$f"/x
    else
        sed -i '' 's/COMP2041/COMP2041/g;s/COMP9041/COMP9041/g' "$f"
    fi
done
```

Question 4

```
time=`date | cut -c17-18`

if [ $time -ge 9 -a $time -lt 17 ]
then
    exit 0
else
    exit 1
fi
```

```
time=`date | cut -c17-18`
test $time -ge 9 -a $time -lt 17
```

Question 5

```
egrep -v ':' aliases | sed 's/^ *//'
```

Question 6

```
acc jessicat | tr -s ' ' '\n' | egrep '[A-Z]{4}[0-9]{4}_Student' | cut -d '_' -f1
```

try `grep` first, then just realise grep does not support quantifier

Question 7

Question 8

`~` is escaped in double quotes. does not handle spaces in filenames correctly.

```
for image_file in ~/friends/*  
do  
    ln -s "$image_file" .  
done
```

Question 9

```
start=1  
step=1  
  
if [ $# -eq 1 ]  
then  
    stop=$1  
elif [ $# -eq 2 ]  
then  
    start=$1  
    stop=$2  
elif [ $# -eq 3 ]  
then  
    start=$1  
    step=`expr $2 - $1`  
    stop=$3  
fi  
  
while [ $start -le $stop ]  
do  
    echo "$start"  
    start=`expr $start + $step`  
done
```

Question 10

```
for i in `seq 2 $(( $1 - 1 ))`  
do  
    if [ `expr $1 % $i` -eq 0 ]  
    then  
        echo "$1 is not prime"  
        exit 1  
    fi  
done  
  
echo "$1 is prime"
```

Question 11

```
egrep "^#include" "$@" | sed 's/[>][^">]*$//' | sed 's/^.*"< //' | sort | uniq
```

Question 12

`IFS` indicate argument separator, so the script will print "mountainside"