## grep Command

```
echo "length of array"
read n
for ((i=0;i< n;i++))
    read a[i]
done
bubble=1
while ((bubble))
do
    bubble=0
    for ((i=0; i<(n-1); i++))
    do
  #echo $i
  \#echo \$((a[i]))
  \#echo \$((a[i+1]))
  if((a[i]>a[i+1]))
  then
      echo "swapped ((a[i])) and ((a[i+1]))"
      temp=$((a[i]))
      a[i] = \$((a[i+1]))
      a[i+1]=\$temp
      bubble=1
  fi
    done
    echo ${a[*]}
done
echo ${a[*]}
Output
42813@user:/mnt/42813/oslab/latex/programs/1$ bash bubble.sh
length of array
5
5
3
7
3
swapped 5 and 3
swapped 7 and 3
swapped 7 and 2
```

```
3 5 3 2 7 swapped 5 and 3 swapped 5 and 2 3 3 2 5 7 swapped 3 and 2 3 2 3 5 7 swapped 3 and 2 2 3 3 5 7 2 3 3 5 7 2 3 3 5 7
```