```
eg09-shift.sh
May 23, 04 3:39
                                                               Page 1/1
#!/bin/bash
# Introducing shift, &&, and ||, stdout redirection 1>&
is_odd()
    [ $# == 0 ] && echo "usage: call $0 with 1 argument" 1>& 2
    remainder=$(($1 % 2))
    if [ $remainder == 1 ]; then
        return 0
    else
        return 1
    fi
while [ $# -ne 0 ]; do
    if is_odd $1; then
        echo "$1 is odd"
    else
        echo "$1 is even"
    fi
    shift
done
```

```
eg10-colon.sh
May 23, 04 4:10
                                                                Page
#!/bin/bash
# Introducing :, $RANDOM, echo -e
quess=$RANDOM
count=0
while :
do
    read -p "guess: " -e num
    if [ $num -lt $guess ]; then
        echo -e "\tlow"
    elif [ $num -gt $guess ]; then
        echo -e "\thigh"
    else
        echo -e "\tbingo. you have taken ${count} guess"
        break
    fi
    count=$(($count+1))
done
```

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```
eg15-awk.sh
 May 23, 04 9:26
                                                                                   Page 1/1
#!/bin/bash
# More awk
awk 'BEGIN {
           w1 = 5.0/10
           w2 = 8.0/10
           w3 = 7.0/10
           print "AVERAGE FOR CS2281"
           total a1 += $2
           total a2 += $3
           total_a3 += $4
           count++
           printf "%s %.1f\n", $1, $2*w1+$3*w2+$4*w3
     ÉND {
           printf "A1 = %.1f, A2 = %1.f, A3 = %1.f\n",
           total_a1/count, total_a2/count, total_a3/count
printf "AVERAGE = %.1f\n", (total_a1*w1/count)+(total_a2*w2/count)+(total_a3*
w3/count)
      }' < assignment.db</pre>
```

Sunday May 23, 2004 eg15–awk.sh