

פתרון תרגיל בית מספר 11 (סמסטר חורף 2015)

להלן תוכן 3 הקבצים P11.1-P11.3.

P11.1

```
sed '/\([^ ]+\).*[ ]\1[ ]\([^ ]*\)[ ]\1|\1\)\($\|[ ]\)/!d' $1
```

P11.2

```
#!/bin/awk -f
BEGIN{
    cnt=0
    for(i=2; i<ARGC; i++){
        B[cnt]=ARGV[i]
        cnt++
        delete ARGV[i]
    }
}
{
    for(i=1; i<=NF; i++){
        A[NR,i]=$i
    }
}

END{
    ORS=" "
    for(x=0; x<cnt; x++){
        sum=0
        for(i=1; i<=B[x]; i++){
            for(j=1; j<=B[x]; j++){
                sum=sum+A[i,j]
            }
        }
        if((x+1)==cnt){
            ORS="\n"
        }
        print sum
    }
}
```

P11.3

```
#!/bin/awk -f
BEGIN{
    str=""
    strA=""
    for(i=1; i<ARGC; i++){
        split(ARGV[i],A,"[^0-9]")
        if(A[1]==ARGV[i]){
            str=str" "A[1]
            delete ARGV[i]
            continue
        }
        strA=strA" "ARGV[i]
    }
    strA=substr(strA,2)
    str=substr(str,2)
    system("echo -n "strA" | tr \" \" \"\n\" | sort |tr \"\n\" \" \" >tmp")
    getline strA <"tmp"
    split(strA,B)
}
END{
    for(i=1; i<=length(B); i++){
        OFS=""
        ORS=""
        print B[i],": "
        system("P11.2 "B[i]" "str)
        ORS="\n"
    }
}
```