



## פתרון שאלת CShell ממועד א' של סמסטר אביב 2003

סעיף א':

**statistics**

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```
#!/usr/local/bin/tcsh -f
set file = "$1"
cat "$file" | file_as_column | sort | uniq -c |
sort -n -r | reverse_order
```

**file\_as\_column**

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```
#!/usr/local/bin/tcsh -f
set line = (<)
while($#line != 0)
  foreach word ($line)
    echo $word
  end
  set line = (<)
end
```

**reverse\_order**

---

```
#!/usr/local/bin/tcsh -f

set line = (<)
while($#line != 0)
  echo $line[2] $line[1]
  set line = (<)
end
```



סעיף ב':

### summarize

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```
#!/usr/local/bin/tcsh -f
set file      = "$1"
set max_occur = "$2"

set common_words =
  (`statistics $file | hpf $max_occur`)
cat $file | filter_words $common_words

# filter_words $common_words < $file
```

### hpf

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```
#!/usr/local/bin/tcsh -f
set min = "$1"
set line = (<)
while($#line != 0)
  if($line[2] > $min) echo $line[1]
  set line = (<)
end
```

### filter\_words

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```
#!/usr/local/bin/tcsh -f
set common_words = ($argv)
set line = (<)
while($#line != 0)
  @ first = 1
  foreach word ($line)
    @ word_ok = 1
    foreach cword ($common_words)
      if("$word" == "$cword") then
        @ word_ok = 0
        break
      endif
    end
    if(! word_ok) continue
    if(! first) echo -n " "
    echo -n $word
    @ first = 0
  end
  if(! first) printf "\n"
  set line = (<)
end
```