

**get_subgroup**

```
set filename = $argv[1]
cat $filename | get_subgroup_file $argv[2-]
| sort -n
```

get_subgroup_file

```
set titles = (<)
set line = (<)
while($#line != 0)
  @ line_ok = 1
  foreach param ($*)
    set field = `echo $param | cut -d':' -f1`
    set val = `echo $param | cut -d':' -f2`
    set idx =
      `field_idx_by_name $field $titles`

    if("$line[$idx]" != "$val") then
      @ line_ok = 0
      break
    endif
  end
  if($line_ok == 1) echo $line

  set line = (<)
end
```

field_idx_by_name

```
set field = $argv[1]
@ i = 1
foreach name ($argv[2-])
  if($name == $field) then
    echo $i
    break
  endif
  @ i++
end
```

שאלה 2: תכנות ב-C-Shell (30 נקודות) – חורף 2002-2003, מועד א'**mtm_find**

```
if($#argv != 3) then
  echo Wrong number of parameters
  exit 1
endif
if("$2" != "-name") then
  echo Second parameter must be -name
  exit 2
endif

set dir = "$1"
set pattern = "$3"

if(! -d "$dir") then
  echo First must be an existing directory
  exit 3
endif

rec_find "$dir" "$pattern" | sort |
summary_find
```

rec_find

```
set dir = "$1"
set pattern = "$2"
set pwd = `pwd`

foreach file ( $dir/* )
  if(-f "$file"&&"$file"=~"$dir/$pattern") then
    echo $pwd/$file
  endif
  if(-d "$file") $0 "$file" "$pattern"
end
```



(המשך)

summary_find

```

set line = (<)
@ count = 0
while($#line != 0)
  @ count ++
  echo $line
  set line = (<)
end

echo $count files were found

```

שאלה 2: תכנות ב-C-Shell (30 נקודות) – חורף 2002-2003, מועד ב'**Accuracy**

```

set city = "$1"

if(!(-e "$city.real")) then
  echo Real file was not found
  exit
endif
if(!(-e "$city.forecast")) then
  echo Forecast file was not found
  exit
endif

cat "$city.real" |
  accuracy_exact_forecasts "$city.forecast"

```

accuracy_exact_forecasts

```

set forecast = "$1"
set line = (<)
while($#line != 0)
  set found = `grep "$line" "$forecast"`
  if("$found" != "") then
    set date = `echo "$line" | cut -d' ' -f1`
    echo $date
  endif
  set line = (<)
end

```

check_bad

```
check_bad_not_sorted | sort +1 -r -n
```

check_bad_not_sorted

```

foreach country (*)
  if(-d "$country") then
    check_country "$country"
  endif
end

```

check_country

```

set country = "$1"
@ count = 0
foreach cityreal ($country/*.real)
  set city = `echo "$cityreal"|cut -d'.' -f2`
  set days = `cat "$cityreal"|wc -l`
  @ halfdays = $days / 2

  set gooddays = `accuracy "$city" | wc -l`
  if($gooddays < $halfdays) then
    @ count++
  endif
end

echo $country $count

```