```
Sisteme de operare
   Eurs 2
      -> biletele cu username, parola etc.
      \Rightarrow EXAM.txt \Rightarrow are cod c
E
         CP EXAM. txt a.c
5
      gcc -wall -9 -8 a a.c
T
      valgrind. /a
     - screen
                            (arata ce sesium sunt disponibile)
       screen - r (ce pune ) (restaurea za sesiurea)
     standard
                  → input
                                   stdin
                                                             cat . / etc /passwd | . I filter lib
                                   Stdout
                                  stder ( person)
    FILE *f = fopen ("a. txt"
                                  (incrementeata cu 1 la fiecare finier des crie, pormerte de la 3)
     int d = open ("a.txt")
   $..
     vi filter. c
# include cuni
    int main ( int arge, char argy) {
                                                          void with-clib() {
                                                              char 8664];
           if (arge >1 $22 strem ("lib" argv[1]) ==0) {
                                                             while (fgets (A, G4, stdix).1=NULL) {
          else if (arg c 1 12 stromp ("rys", arg v(1)) ==0){
                                                                   # fputs (n, redout);
              fput o ("runknown input", stder );
         returi 0;
 word with-systemell () {
        char A(64);
int i, k;
while (1) {
           k = Nend (0, A, 64);
for (1=0; ick; l+r) {
     3 Frite (1, 8,K);
```

```
inputului si outputului
 cat lete / passwd > a-lxt
 /der/mull -> mereu gol (tot ce e trimis acolo esters, din el utim nimi)
 . I filter < letc/passwd > a txt
 . filter and f </etc/passurd 2> Her/mull -> supress errors
                              1 > /der /mell 2 > & 1
4 trimite crosile unde
                                                   re trimite stout
 true // echo asdf -> mu se ruleaza pentru ca LAZYEVALUATION
true, falre - comenzi
  false 11 echo asof - supi cutput = asof
  grep -g" =" /etc/ passwd || echo mu sunt egaluri
 +999-9 "a" lete/passwd | echo mu sunt 'a"-uri
 ( comd 11 comd) && (! comd)
 text > comanda
                                                  test 1 -eg 2 lecho false
               -n
                     -2
  == /=
                                                     -> false
 egual not not rull
                       null
                                                variable: A=5
B=io
 -ll -le
                             −ge −gt
                       -ne
                                                           B=ion
 led lest equal
                                                      echo $A $B
                                                      echo SA $1B3i
 - f -d
              - E
                      -\omega
                               -X
                                                               ioni
Este este
Lines director
                      putem
serie
                               putem
executa
comandă embedded
 omanau omocacieu (aportrof invers)
  echo 'grep "aa' letc/passwd/ wc -l'
  daca folonim " - mu a face subst.
      "$B are grep ar" lete/passwd lwc - l case"
      ion are 16 case
 echo '$B are 'grep 'or" lete/pass wd | wc -l' case
```

Redirectarea

```
10 - l → detalii (-la si pentru midden files)
         → Permission denied
 .1a.sh
                   100
                   rw X
         RWX
               others
  permisiumi
           940
  user
  chmod 400 a. th
                        d'adirector
                        --file
                        etc
                             #!/use (bin / python !!!
file a.sh
a.sh : ASCII text
. la. Sh
- are 16case
# 1/bin /bash
echo "$B are grep "ar " /etc /passwed | wc -l' case"
$0 - numele comenzii
$1-$9-argumentile
$ sau $@ - toate arg. concatenate ou spatin
$# - nr. arg.
$? - codul de exit al comenzii precedente
```

#!/bin/bash
echo Comando: \$0
echo Agumenti: \$1\$2\$3\$4
echo Toatearg: \$@
echo Nn arg: \$#
true
echo Exit code \$?
edno Exit code \$?
shift 4
echo Angumentle: \$1\$2\$3\$4

#1/bim/bash

for A in a locdefg h; do

echo \$A din for

done

for A in a locdefg h

do echo \$A din for

done

for A in \$0:

do echo \$A din for

done

for A done

for A

done

for A

done

!/6in/bash

for A in \$@

do if test -f \$t; then

echo \$ t e fisier

clif test -d \$A; then

echo \$A e director

elif \$\$\frac{\psi}{\psi} \psi | \quad \quad

lif cond; then
elif cond; then
else
fi
while cond; do
done

gasim toate fisierele mai maki de un rur de ocheti

#!/bin 16ash

for v -type f | while head F; do $s = 'es - l & F | aw | (6) paint $5-3! \\ if text $5 - gt 10240000 Hern

<math>es - l & F$ done f

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