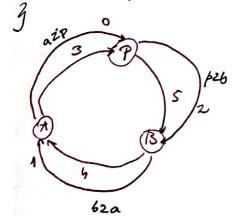
Pipe (anonim po Win)

R ← 1

Capetele pipe-urilor trebruie Juchenes imediat ce ru mai runt necesaro

```
#include <state.h>
#include <statio.h>
#include <statio.h>
#include <unistate>
#include <sys/types.h>
#include < sys/wait-h>
```



returu 0;

default: read & monite runciteste

dac's pipe-ul a gol

-odală ce încep să apară dale, cum
rice cât să cilească

- read e programal sà cites citească cât existà du pipe dacă cerem .

1000 de caractere, rel mai probabil ru am citi tode 1000 odată.

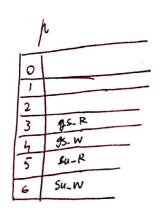
→ dacà pipe-ul e gol, read asteaplà pána cànd en via date san mu mai are cine sà scrie

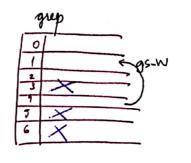
- redd/write returne axà caté ocleti s-a cerut.

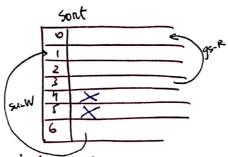
```
Hound-count. 4
                 Flinglude < stolia h>
                #include < std lib.h)
                # include cunist h
              #include < sys/types.h>
#include < sys/wait.h>
                 but main (intarge, chart argo) {
                               int p2602], 62002], a2p (2), M;
                                pipe (p26); pipe (62a); pipe (a2p);
                                   if (fork $ () -= 0 } S/A
                                 Tulig(1); (p26(0)); chose (p26(1)); close (p2a(1)); close (a2p(0));
                                              hill(1) {

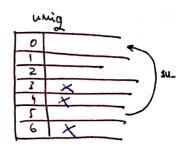
ib(lead (62 a 60), \( \lambda \), \( \lambda \) is(lead (62 a 60), \( \lambda \), \( \lambda \) \( \lam
                                      close (62a (03); close (azp(17);
                            3 exit(0);
                          iffork $0 ==0) 2 11B
                                       close (a2 plo); alose (a2p(1)); close (p26(1)); close (62a(0));
                                        while (1)}
                                                   ib (read (p2 b Co), In, sixeof (int)) <-022 M<=0) break;
                                                    Ne--; printb( B /l -> /d lu 1, net, u);
                                                    write ( 62 a [1], ) M, size of (int)/
                                      close (p26(07); close (62a (1));
                                        exi+(0);
                      dose (620 to)); close (620 (17); close (62p (17)); close (p26(07);
                      M=15/
                 write (p26 (1), In, sizeof (int));
                     while (1) }
                                      if ( read ( p p a2plo), & m, sizeof ( int)) <= 0 && m<= 0) break;
                                        m = -, privité ( P: >d - >d \ n 1, nm, m);
write (p2661], & m, sizeof (int));
                    clox (asp(07); close (p 26 (17); mait(0); mait(0);
                    keturu o.
     3
```

```
grep "an/gr211" /etc/posswa /sort / wing ~
   dup 2 (plo], 0) /- son lua ce gaseste la plo] si va pune lo O (doar im Procesul Euseut)
ppe-chain.c
    #include < stdio.h>
    #include < statioh>
    #Include cunistd. As
    # include < = ye/waits
    #indude < sys/types.h>
   int main (intarge, chas "argu){
     int gs (27, m(2); pipe (gs) 1 pipe(su);
     if (forte) ==0) { close (gr [0]); close (su[0]); close (su[1]); dup2 (gs[1], 1);
           exectly ( grap 1, agrap 4, afan1/ 4 7, 4 letc/passed 1, MULL);
     3
     ib (forte) == 0) } close (gol1); close (sulo]); dup 2 (gs 60], 0); dup 2 (sul1], 1);
           execlp (nort", "sort", HULL);
          exit();
   if (fort():=0) { chose (gs(0));gst close(gs(1)), close (su(1)); dup2 (su(0), 0);
         execlp (" mig", "mig", "-c", MULL);
        exit(p);
   } close ( 95(07); close (85(17)); close (50(07); close (50(17));
   wait(s); wait (o); wait(o);
   returno;
```









Fifo-un fisier au cale unità au nistem si lucregrà co un pipe

mkfifo rume

la fibo, openare mecanism special ca read/write o