Variabili:

Int [] a = new int [100]

MutexdP = 1;

Mutex3 = 1;

MutexD; = 1

pari = 50; //semaforo

div3 = 17; //semaforo

disp = 33; //semaforo

produttore

item =…

while(true){

if(item%2 == 0){

wait(pari);

wait(mutexP);

a [i] = item;

signal(mutexP);}

if(item%2 == 1 & item%3 == 0){

wait(div3);

wait(mutex3);

a [i] = item;

if(j=99{j = 3;} else j = j+6;

signal(mutex3);}

if(item%2 == 1 & item%3 == 1){

wait(disp);

wait(mutexD);

a [k] = item;

k++

while(k%2 == 0 | k%3 == 0) { k = (k+1) %100;}

signal(mutexD); }}

Consumatore:

Item =….;

While(true){

Wait(mutexP);

Wait(mutex3);

Wait(mutexD);

while(buffer[h]<0){h++;}

item=buffer[h];

buffer[h]=-1;

If(item%2 == 0){signal(pari);}

if(item%2 == 1 & item%3 == 0){signal(div3);}

if(item%2 == 1 & item%3 == 1){signal(disp);}

signal(mutexP);

signal(mutex3);

signal(muteexD);

}