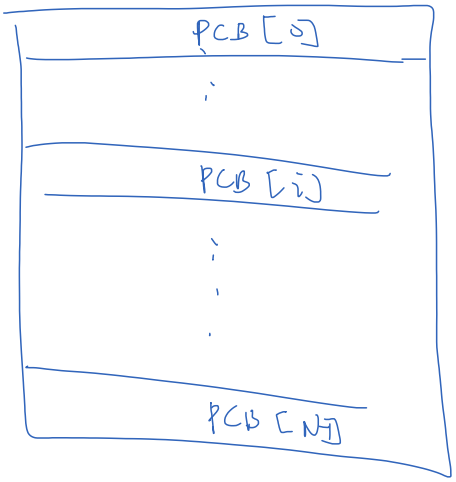
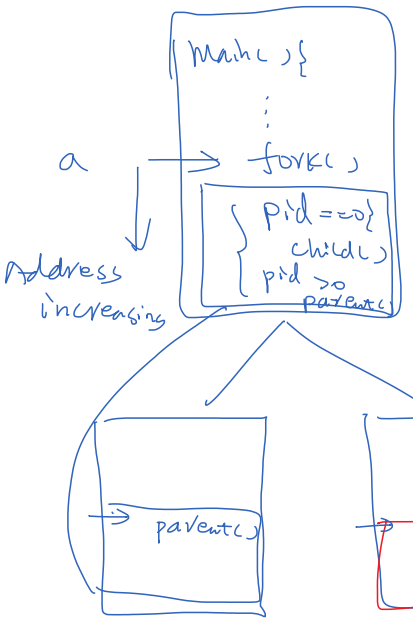
process Table



Construct a "New" PCB, means to identify a PCB in the process Table, with a flag 'available'.

Fork()

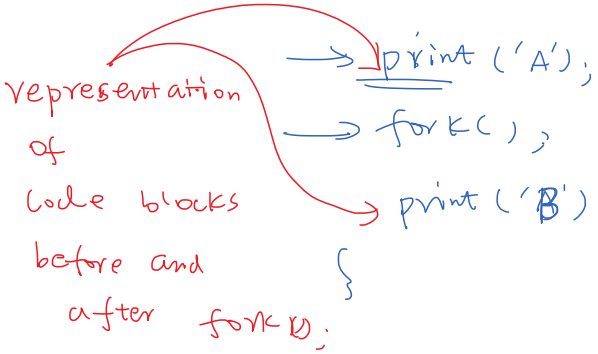


duplication of every thing below the fork()

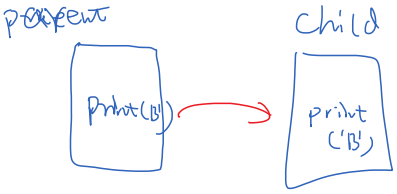
[logical address > a

E.g.1. parent process

main(){



A

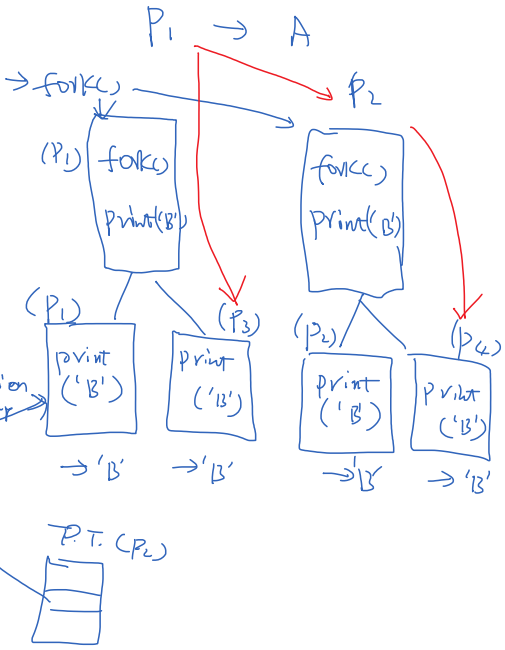


Exercise 1:

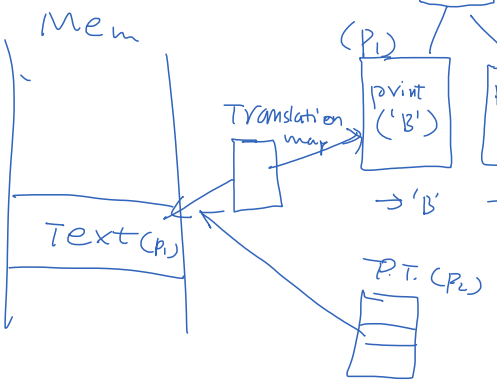
```
main(){
print('A');
fork();
fork();
print('B');
}
```

P_1

1 A 4 B



Sharing



SECS Server

SCP / SSH

User1 User 2 , . . . User n

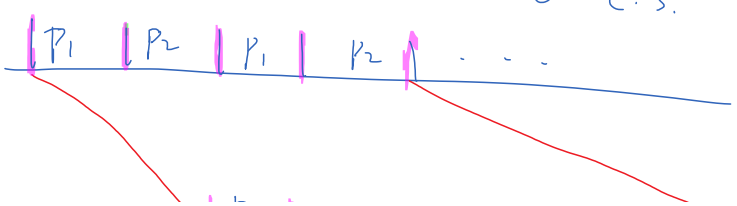
→ Exec ( )

process P_1

P_2

Large process

5 C.S.



9 C.S

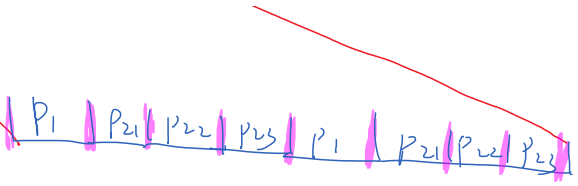
Large process

breaks p_2 into

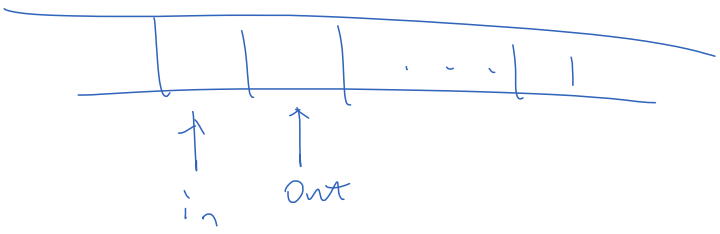
a set of

small processes

p_{21} p_{22} p_{23} ...

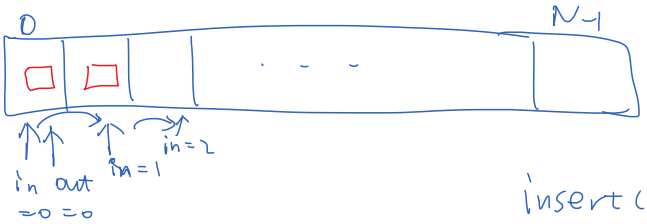


9 C.s



in % buffer-size == out

in ← (in + 1) % buffer_size;



insert() needs to check if the buffer is full or not

(in+1) % N == out

Yes → busy waiting

No → insert()

remove(): needs to check if the buffer is empty or not

in == out

Yes → wait

No → read

"multi thread"