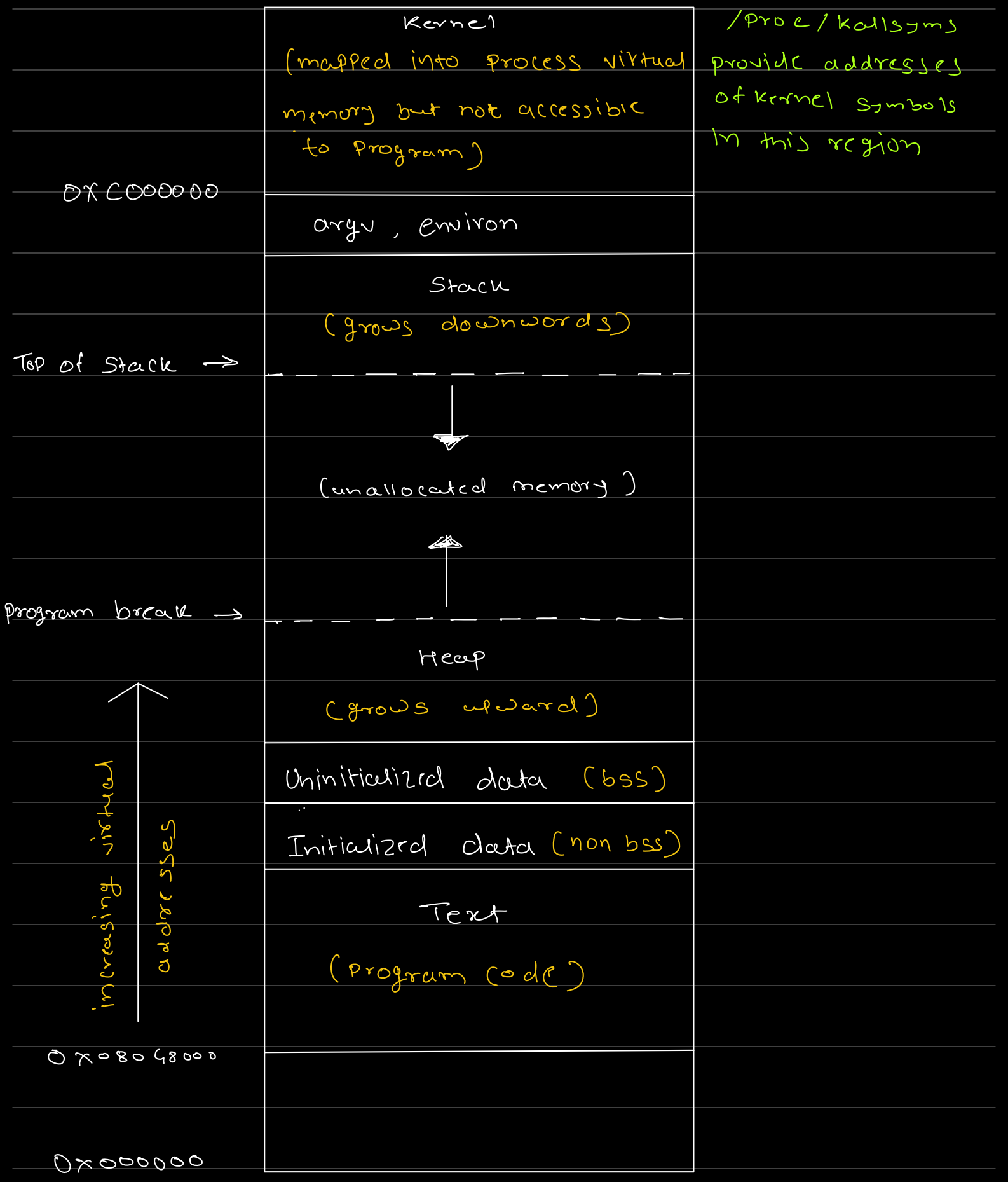
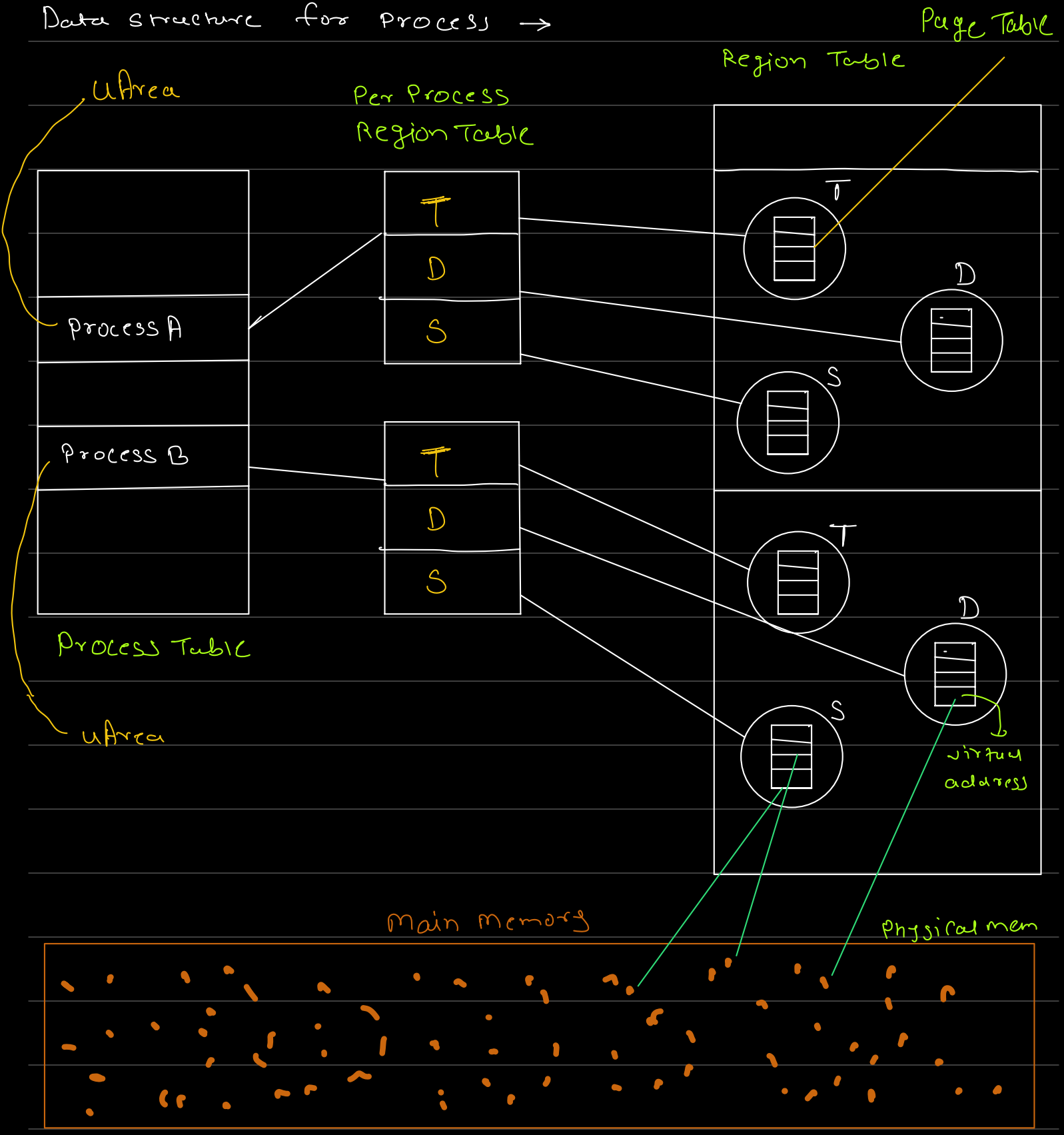
Process layout →

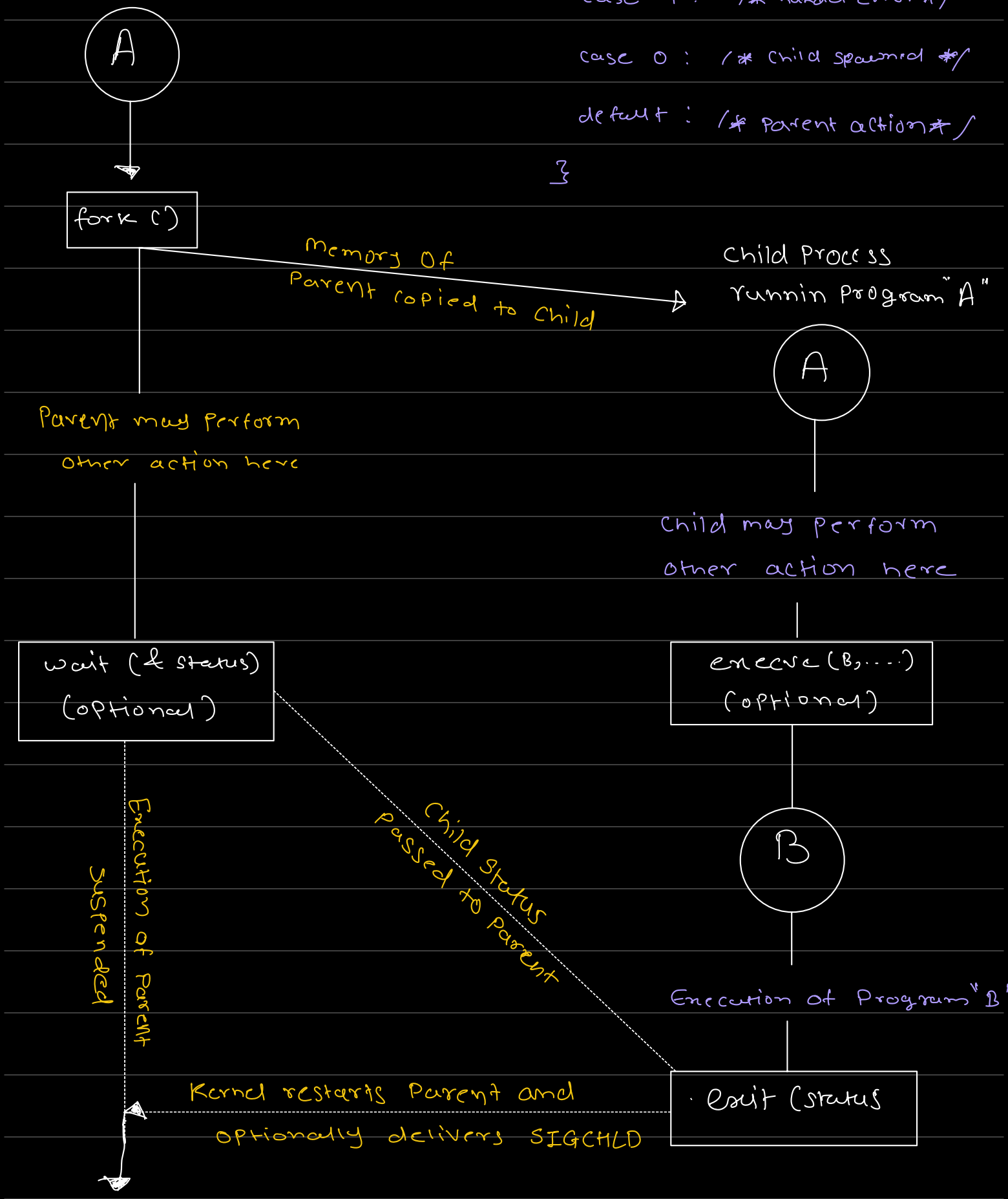


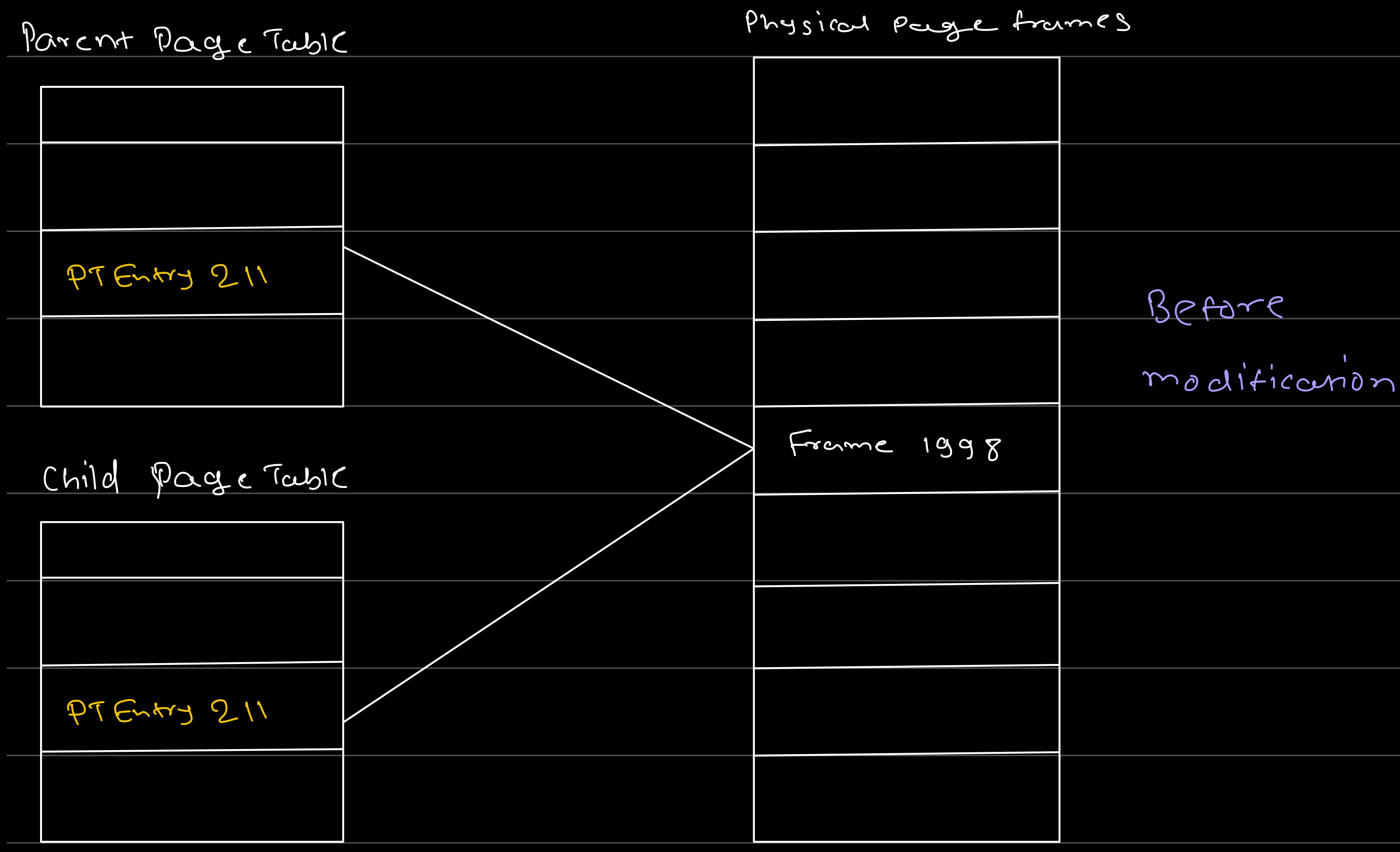
Data structure for process →

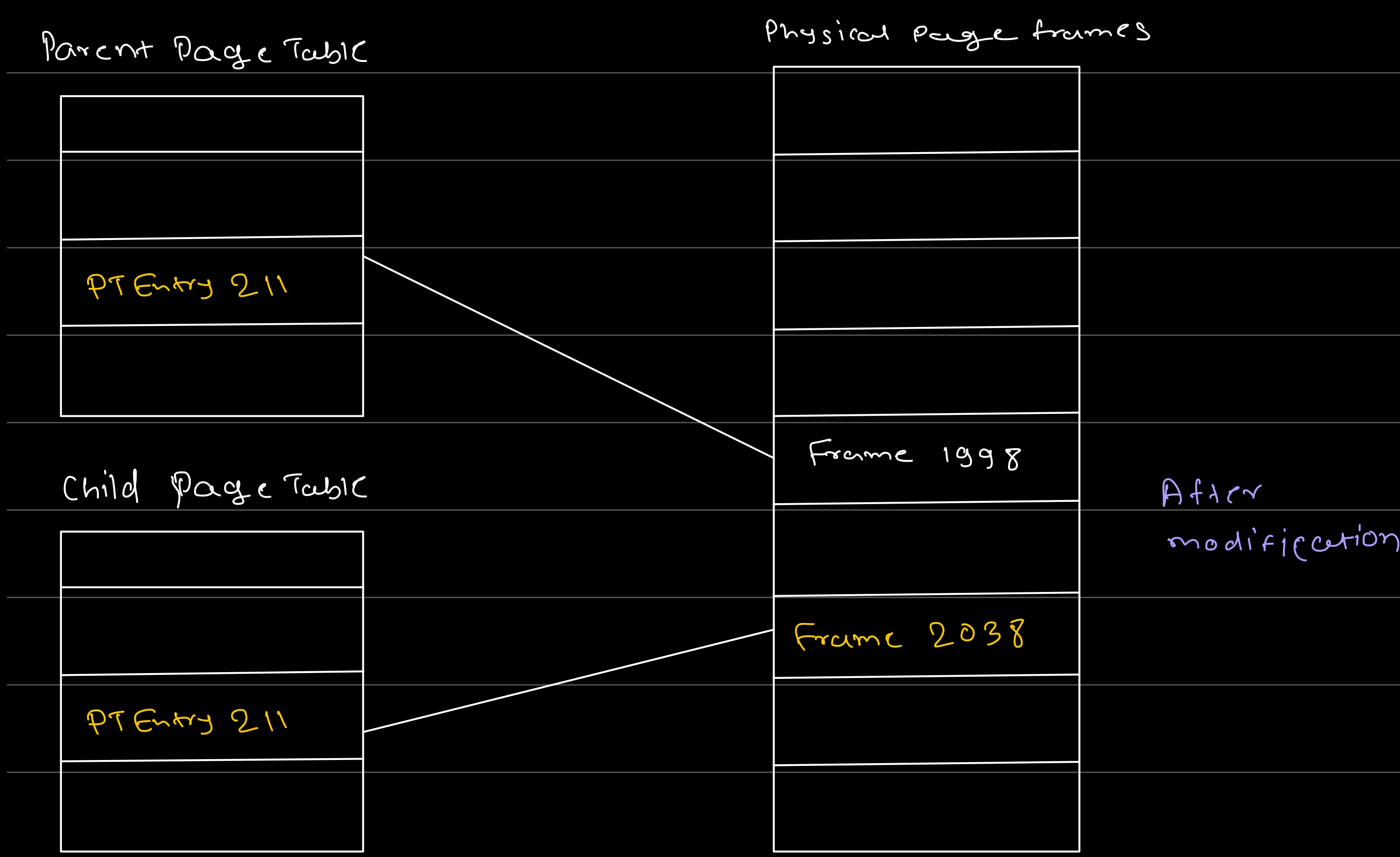


fork(), exec(), wait(), exit() flow

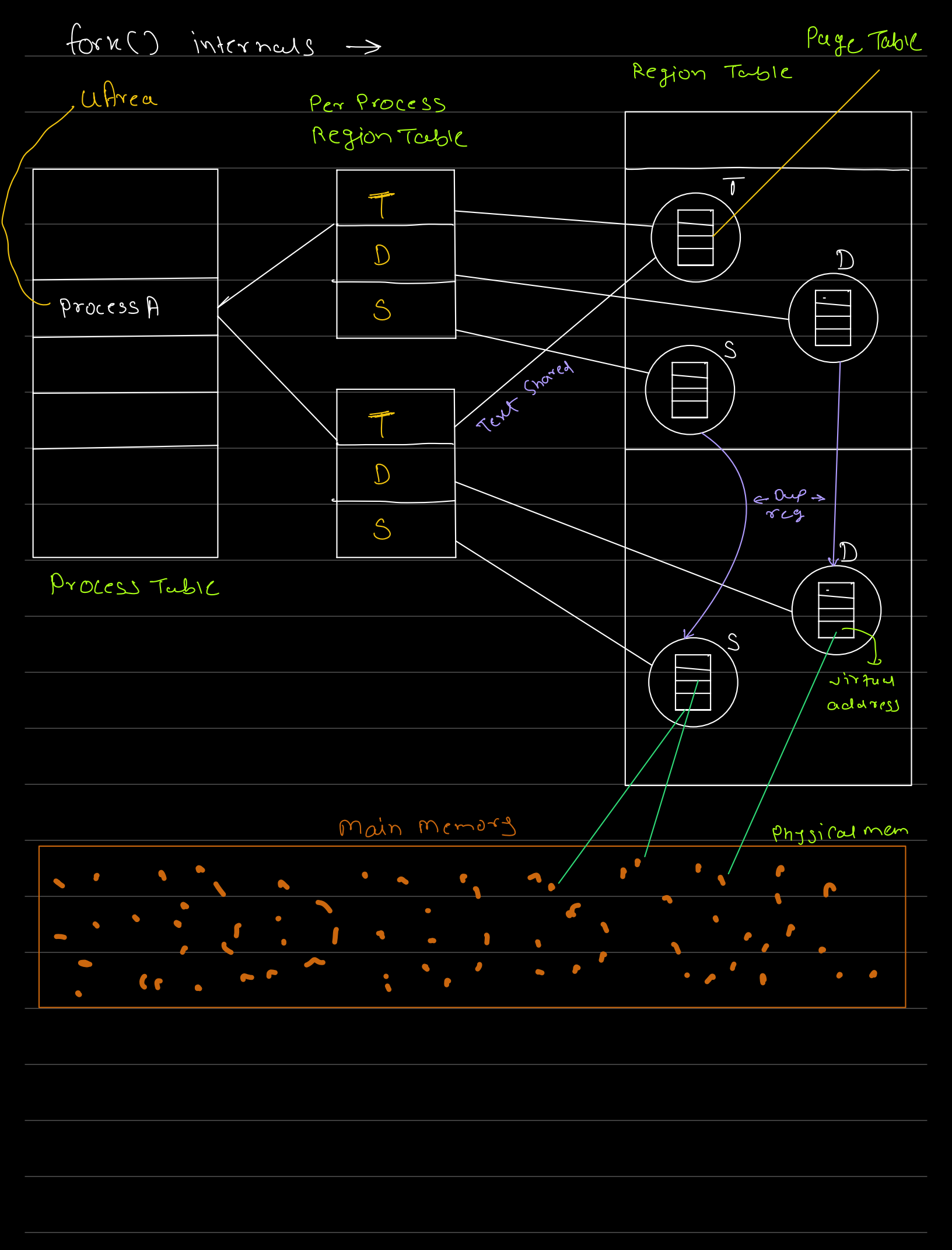
```
pid_t childpid;
switch (childpid = fork())
{ case -1 : /* handled error */
  case 0 : /* child spawned */
  default : /* parent action */
}
```



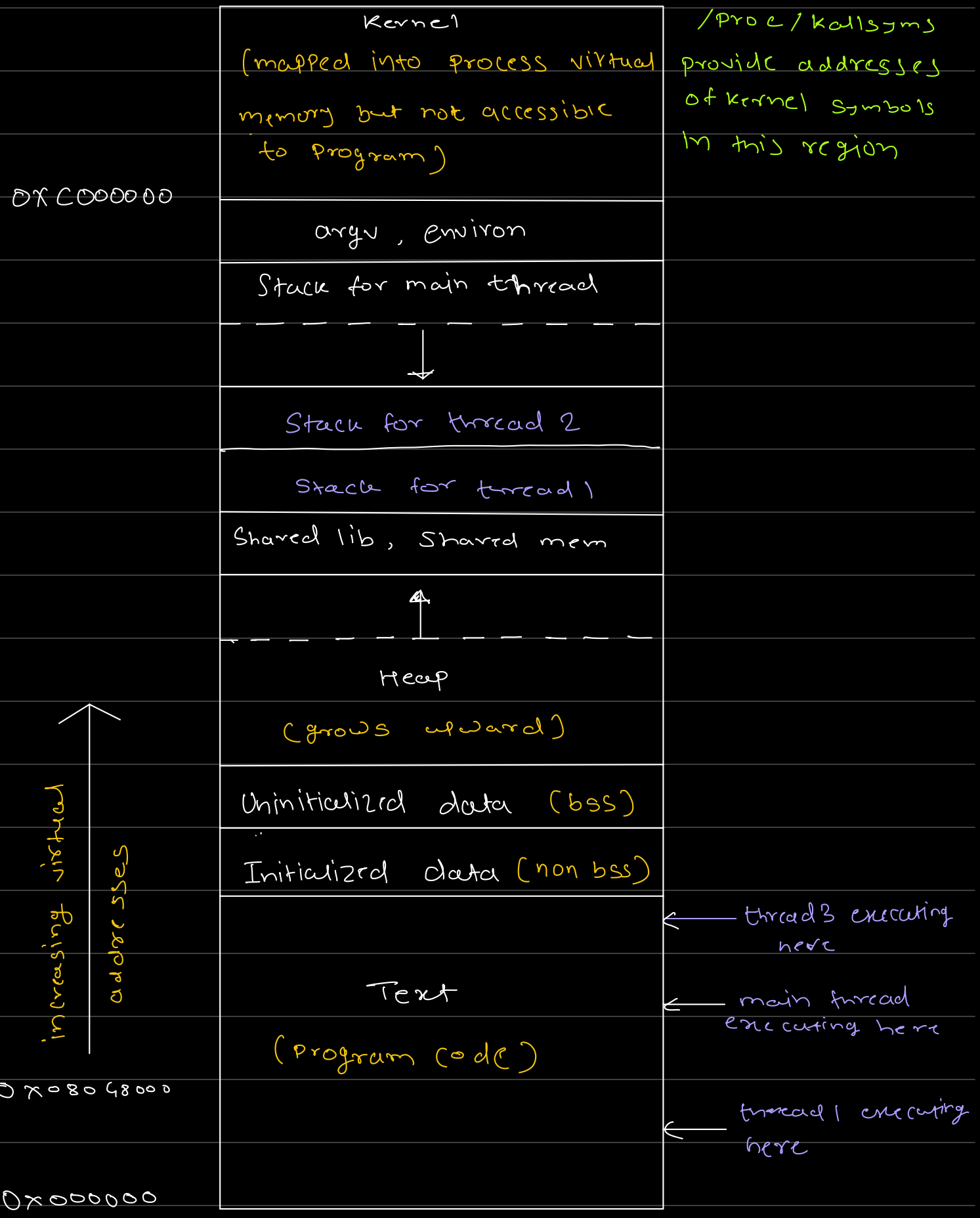




Copy on write → एकाच page वर parent & child write करायला गेले


fork() internals →
Page Table
Region Table
UArea
Per Process
Region Table
T
D
S
Process A
T
D
S
Text Shared
Process Table
T
D
S
<- Dup ->
reg
D
S
virtual
address
Main Memory
Physical mem

2 threads running in a process →



Thread	process
⊖ Sharing data between threads is easy	for process need to use IPC
⊖ Thread creation is faster	process creation is heavy
⊖ Context switching is faster	context switching is slower
⊖ Thread synchronization is required	synchronisation ची गरज नाही.
⊖ एका जरी thread execution मध्ये bug आला तर सगळ्याच execution stop	Processes are isolated

① Process explain → ① Process layout

② OS ds to manage process → single process

② fork () → light weight