

Kernel

Tech  
book  
keeping

IDEs

Compilers

assemblers

linkers

loaders

interpreters

Macro processors

editors

Debuggers

Utilities

libraries

Data bases

Other

Hi

Book keeping  
admin

Archiver

Job planning  
to resource alloc  
System I/O  
Physical I/O

Trans  
action

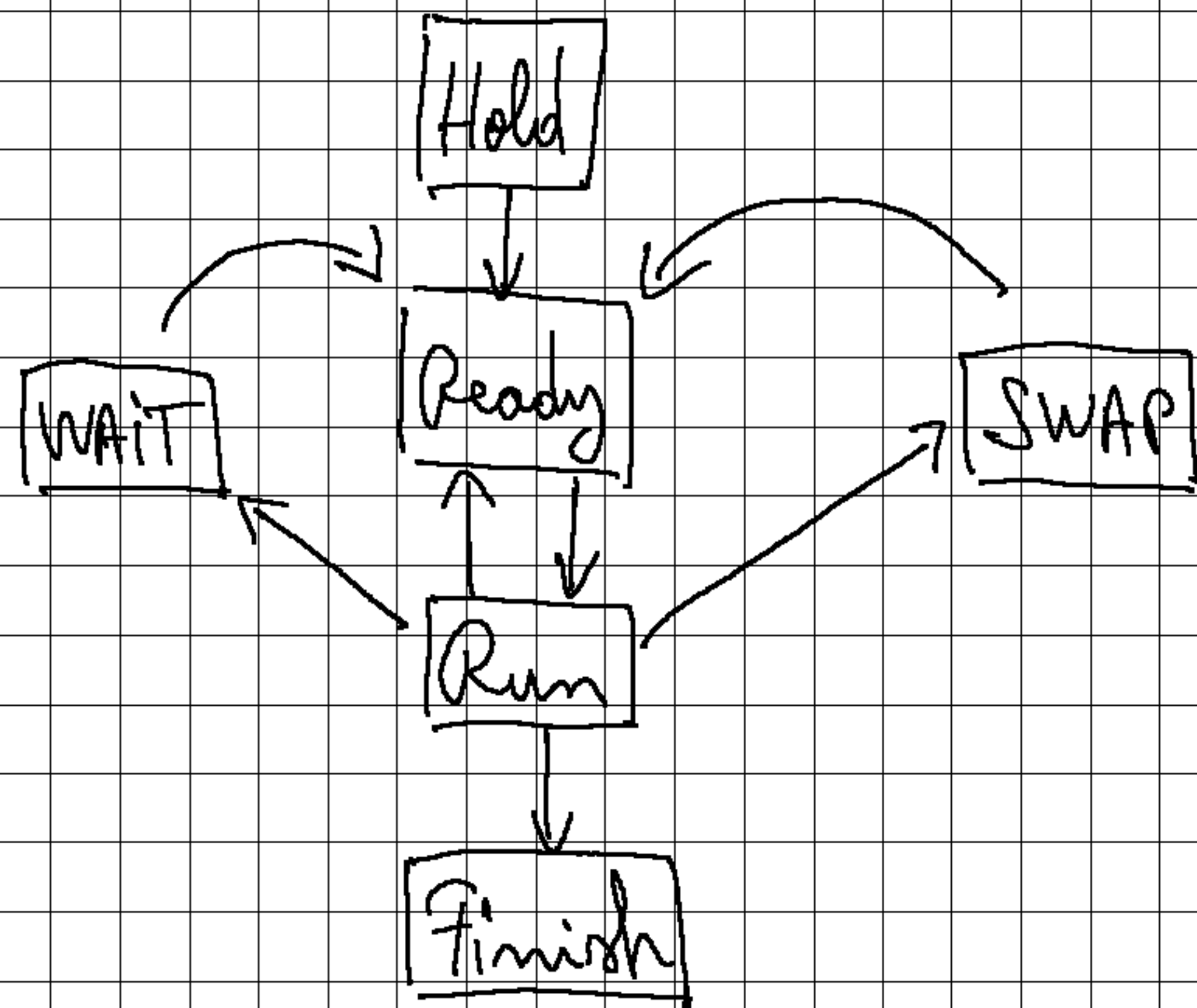
Process  
Manager

CPU  
structure

Interrupts

H  
A  
R  
D  
W  
A  
R  
E

## Processes:



## Scheduling:

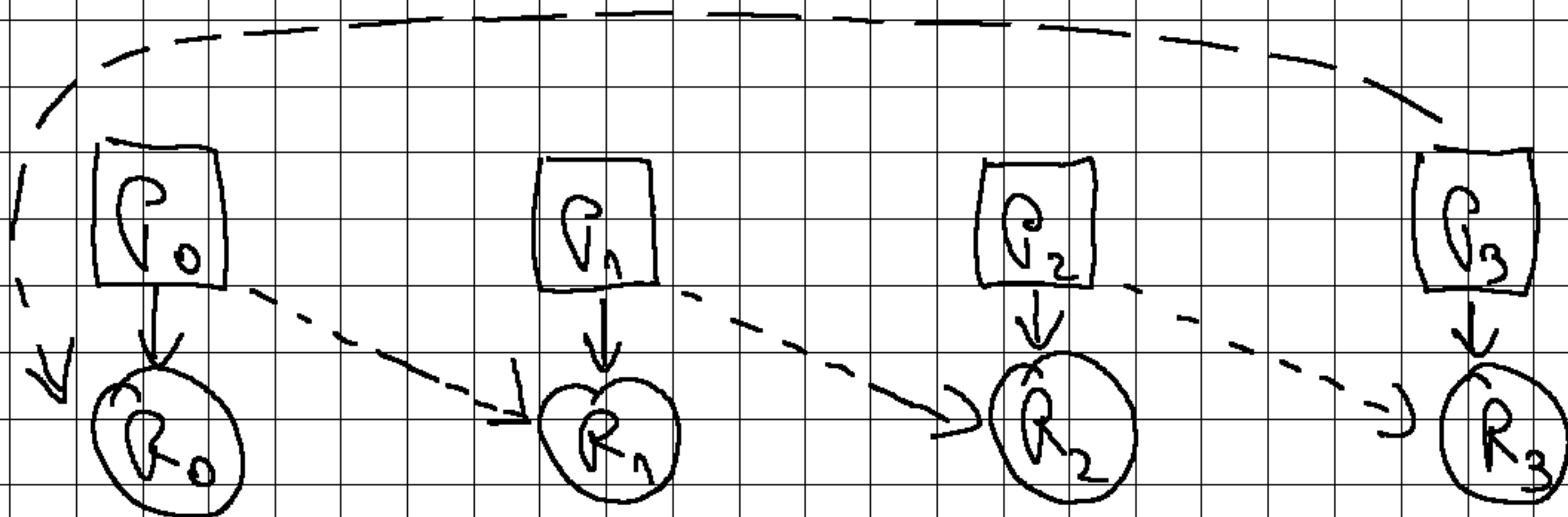
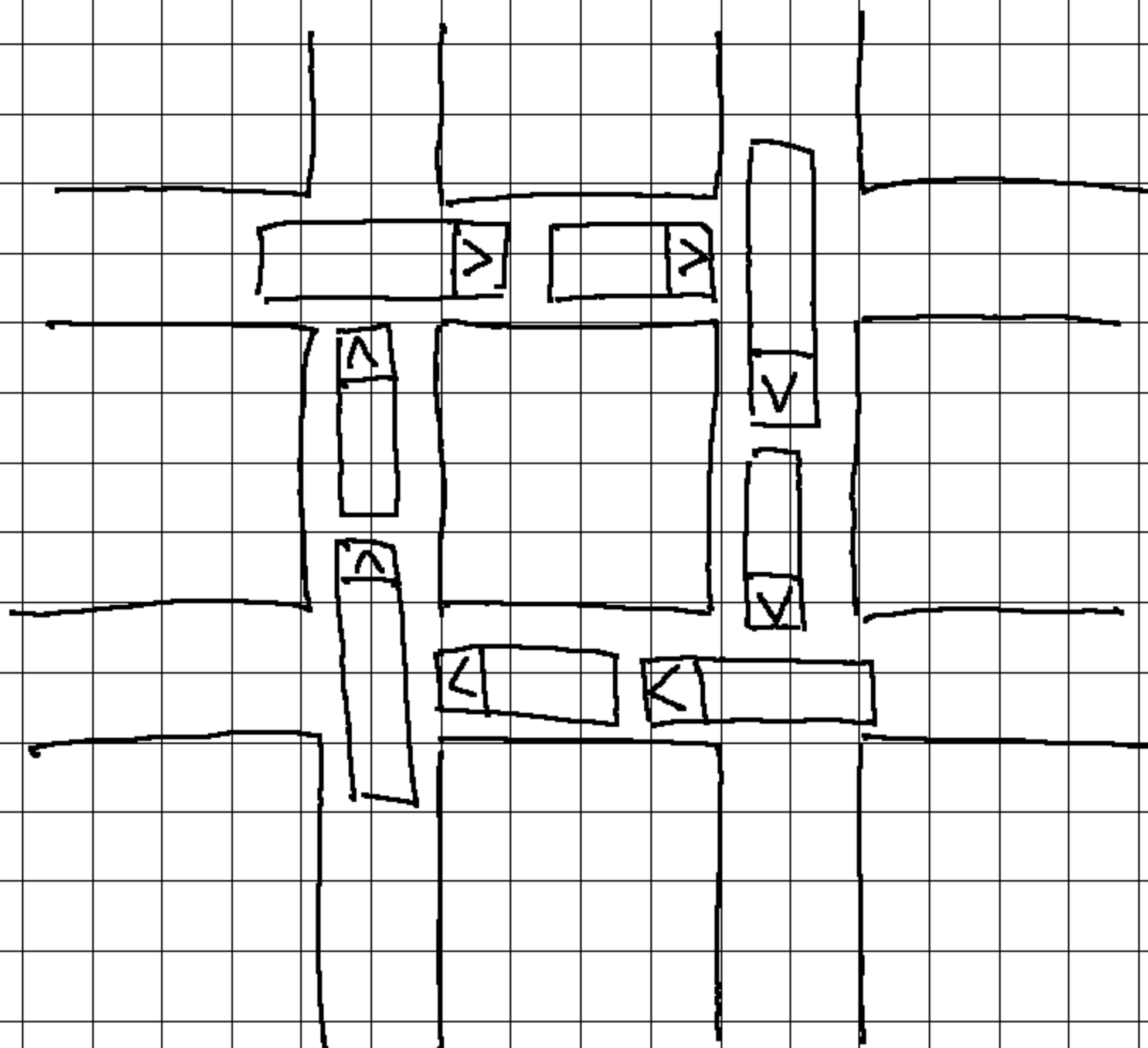
- FCFS (FIFO order)
- SJF (shortest job first)
- Priorities
- deadline scheduling

Job	Duration	Deadline
A	7	10
B	1	5
C	4	12

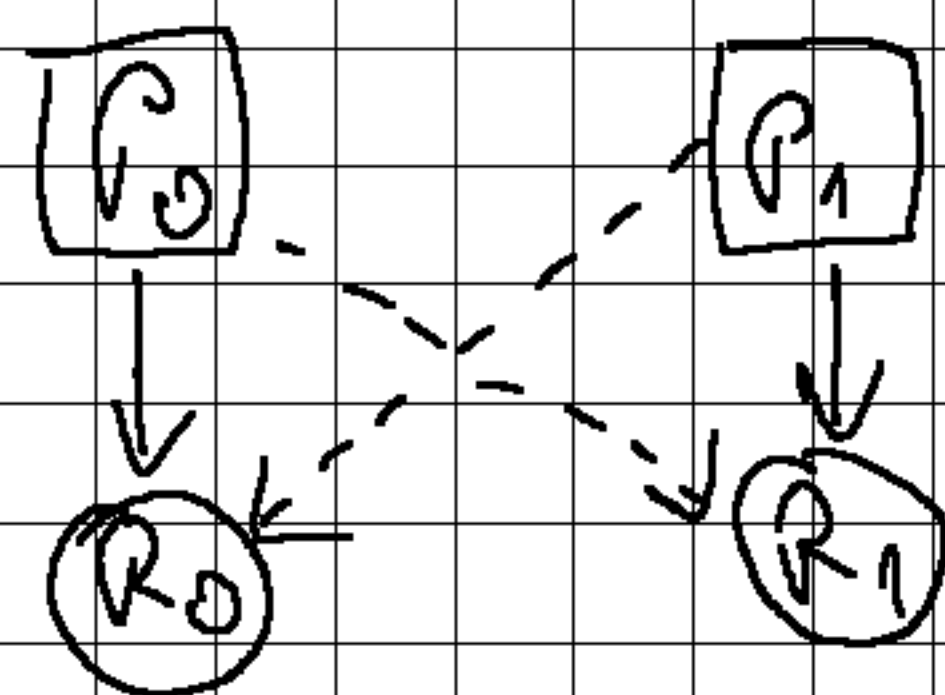
B, A, C

- Round - Robin

# Deadlock:



→ has  
---> wants



To check for a deadlock you have to run a cycle check  
To get out of deadlock you have to kill a process