**Normal Scenario**

if the first & second processes have the same arrival time

if(first BT < second BT)

start first in S\_H

save second in wait & remove from ready

else

start second in S\_H

save first in wait & remove from ready

else

start first in S\_H

for each process in ready list

if( the next process arrival time < end time of current process in S\_H) then an interrupt happens

calculate the new BT of current process

if( next process BT < current process BT)

end the current process in S\_H & put it in wait

start next process in S\_H

else

put next process in wait & remove from ready

else if ( the next process arrival time > end time of current process in S\_H)

end the current process & remove from ready

if wait list is not empty

start process from wait

else //the next process comes right after the current process finishes

end current process

if (the next process BT < waiting process BT)

start next in S\_H

else

start waiting process in S\_H

put next process in wait

for each process in wait list

start the current process until finished

**waiting time**

save the first element in list in (id)

while the list is not having only one element

if the next element have the same (id)

calculate waiting time for repeated

save it in the process

else

if the first element was in repeated

remove it

calculate waiting time for un-repeated

save it in the process

remove the first element

update the id

while the list is not having only one element

i = 0

calculate waiting time for un-repeated

while the id of current == the id of next

+= calculate waiting time for repeated

save it in the process

remove till ith element