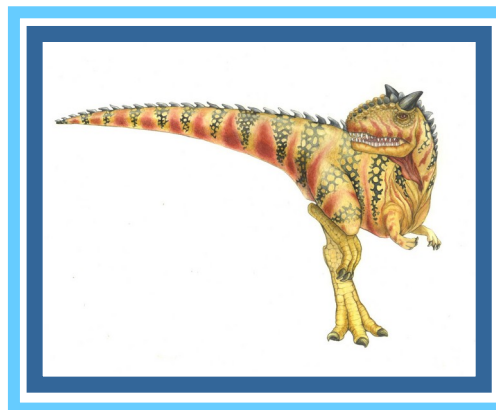


# Semáforos

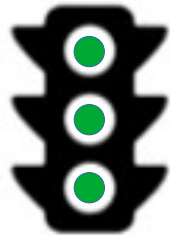
---





# Semáforos

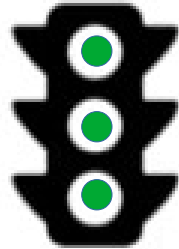
Valor = 3





# Semáforos

Valor = 3



`wait()`

`valor > 0?`

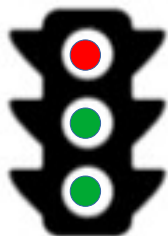




# Semáforos

Decrementa o Valor e a chamada vai retornar. Ou seja, seguir para a via

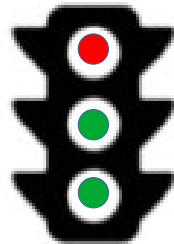
**Valor = 2**





# Semáforos

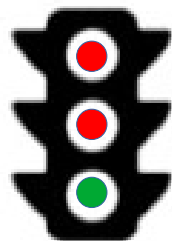
Valor = 2





# Semáforos

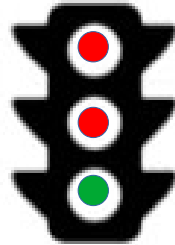
Valor = 1





# Semáforos

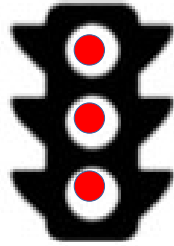
Valor = 1





# Semáforos

Valor = 0

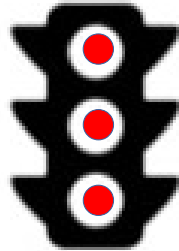




# Semáforos

Valor = 0

Vias cheias

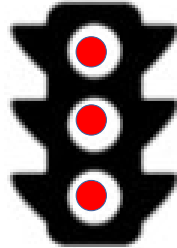




# Semáforos

Valor = 0

Põe para dormir



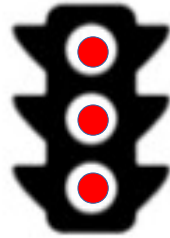
Espera algum trem  
finalizar com Post()





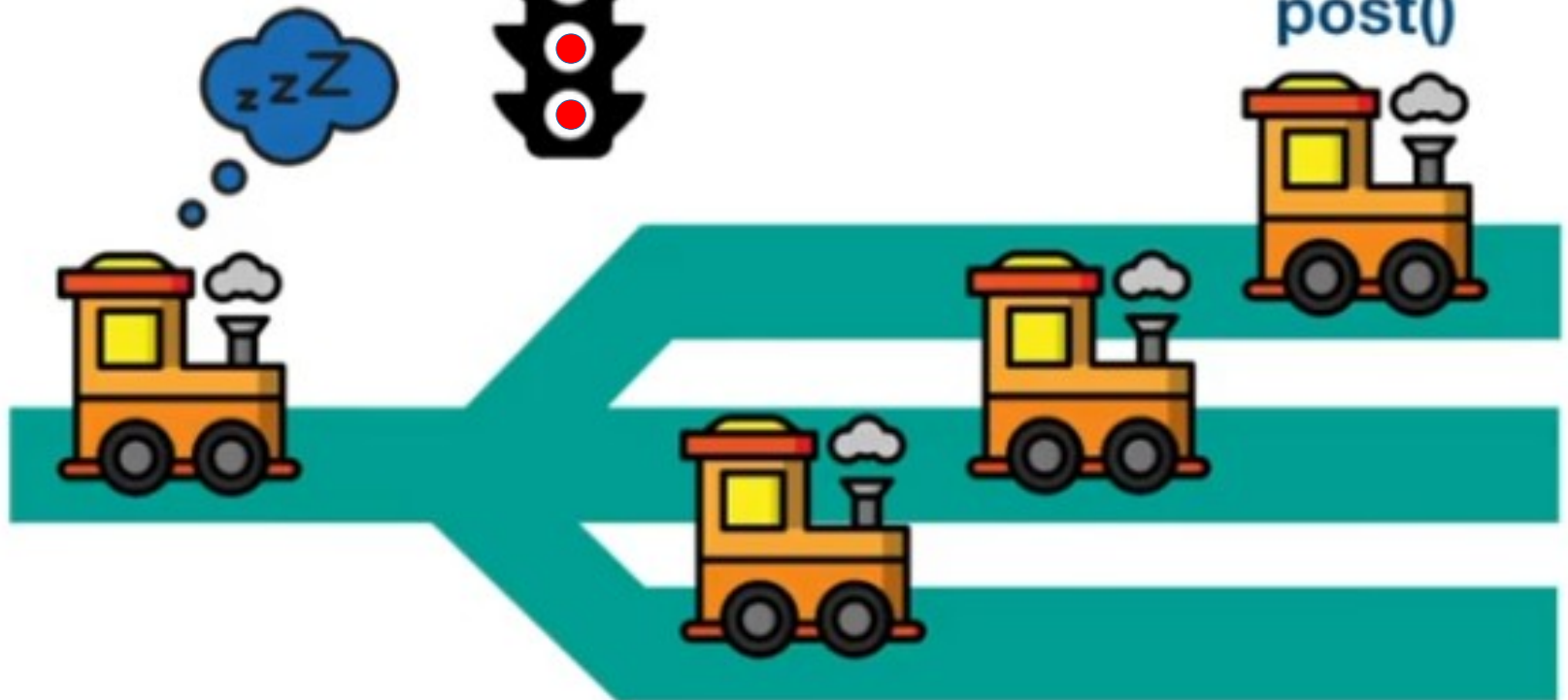
# Semáforos

Valor = 0



Verifica se tem alguém esperando

`post()`

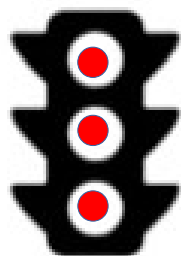




# Semáforos

Valor = 0

*Veja que valor é 0*



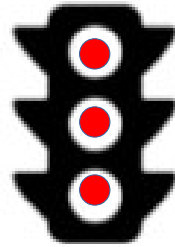
**Acorda**





# Semáforos

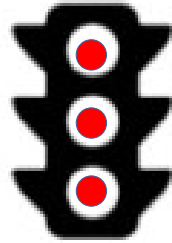
Valor = 0





# Semáforos

Valor = 0

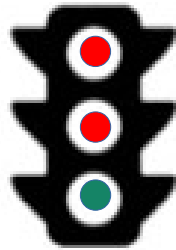




# Semáforos

Como tinha  
ninguém na fila  
(dormindo),  
incrementa o  
semáforo, mostrando  
o número de vias  
livres

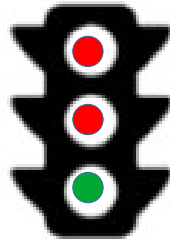
Valor = 1





# Semáforos

Valor = 1



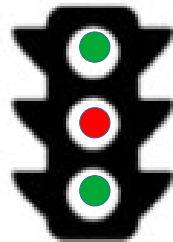
post()





# Semáforos

Valor = 2



post()





# Semáforos

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Valor = 3

