



Universidade Federal de Itajubá

Atividade 7

COM231 – Banco de Dados II

Alunos: Fábio Piovani Viviani

2017006774

Ygor Salles Aniceto Carvalho

2017014382

Professora: Vanessa Cristina Oliveira de Souza

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1 - A)_

```
input  
write(F, f10)  
read(F, f10)  
f10 := 'PEDRO'  
write(F, f10)  
output
```

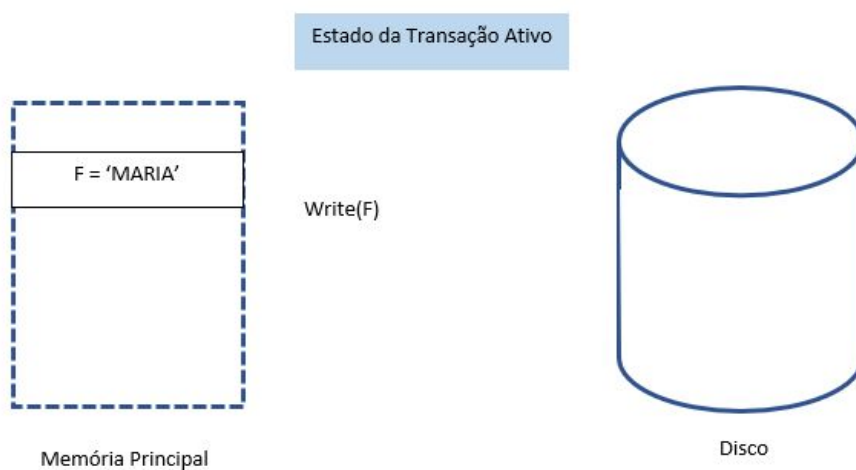
B)_

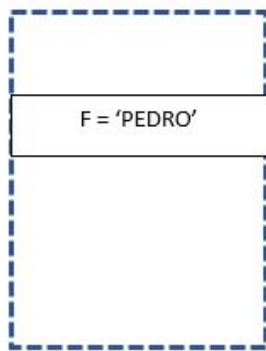
```
input  
read(F)  
write(F, f30)  
read(F)  
read(F, f30)  
f30 := 'CARLOS'  
write(F, f30)  
read(F)  
output  
read(F)
```

C)_

```
read (F)  
F:=F-F  
write (F)  
read (F,f1)  
f1:= 'João'  
write(F,f1)
```

2 - Transação 1:



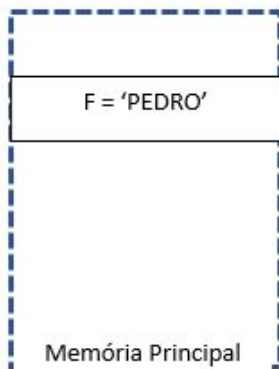


Memória Principal

Read(F)
F = 'PEDRO'
Write(F)



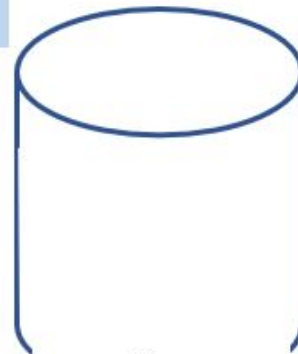
Disco



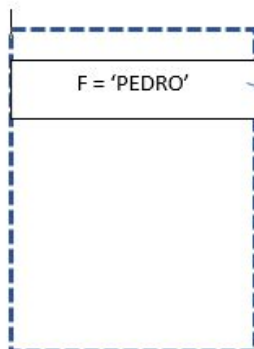
Memória Principal

Estado da Transação:
Parcialmente Compromissada

Write(F)



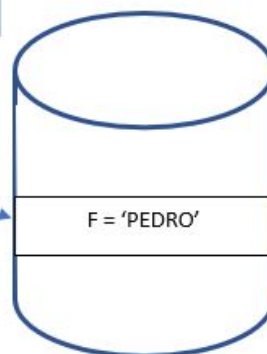
Disco



Memória Principal

Estado da Transação:
Committed

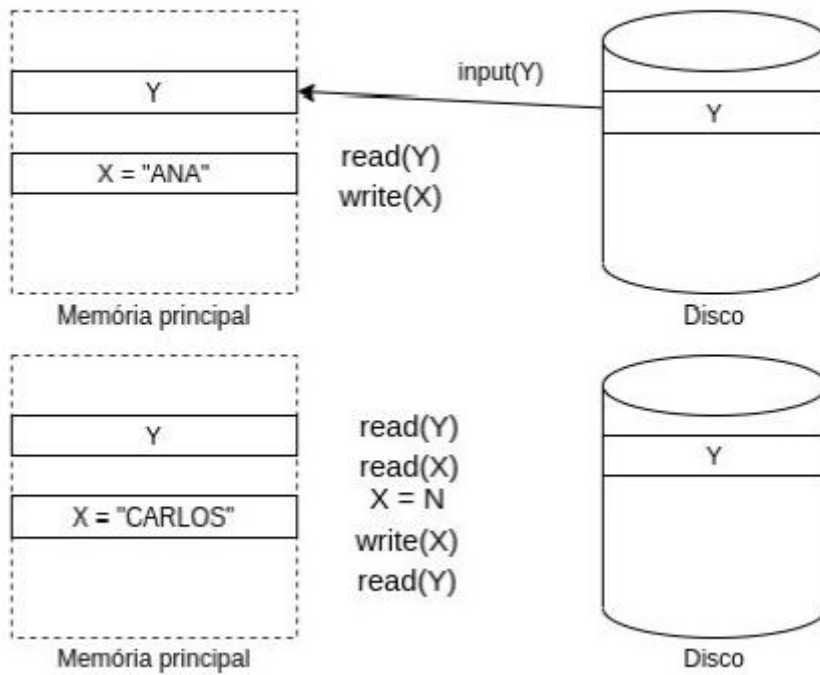
Output(F)



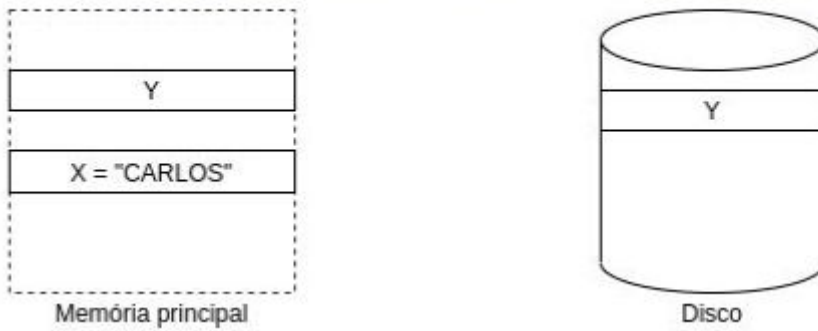
Disco

Transação 2:

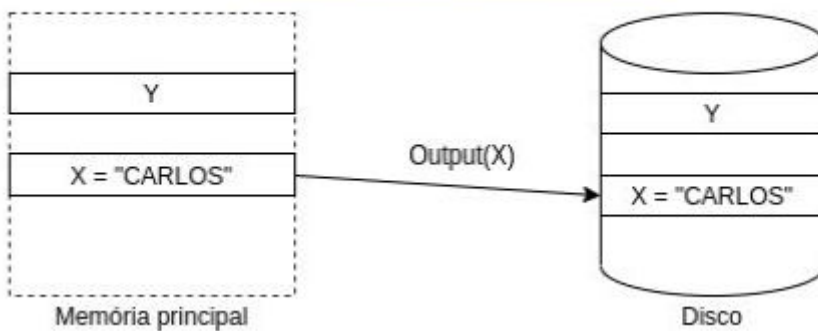
Estado de transação: Ativo

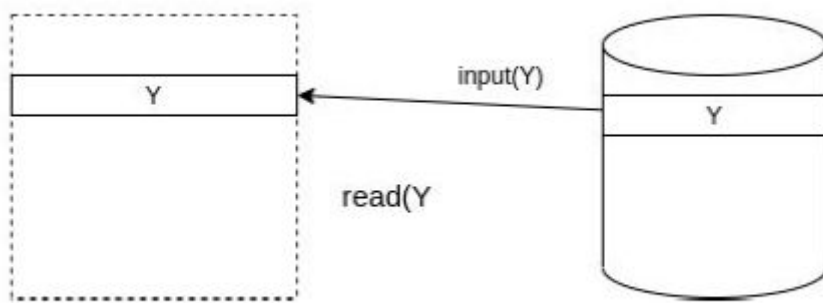


Estado de transação: Parcialmente comprometida

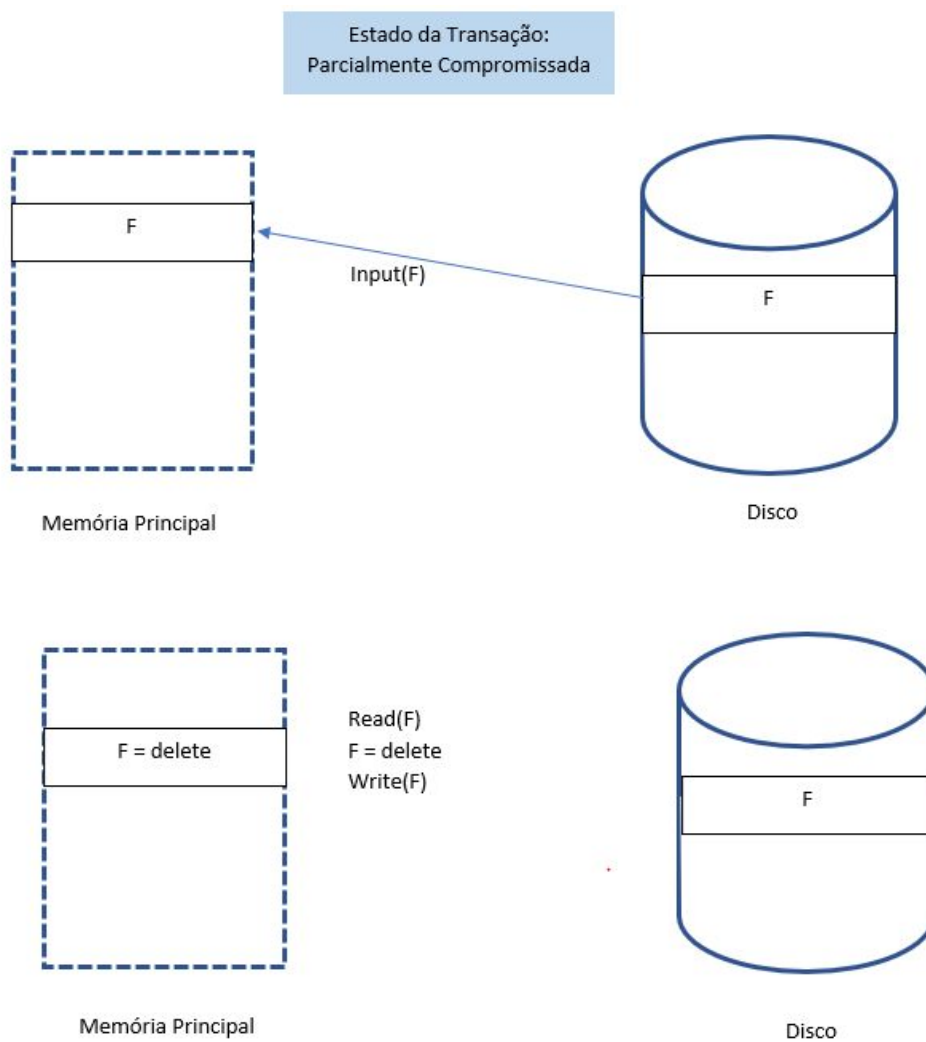


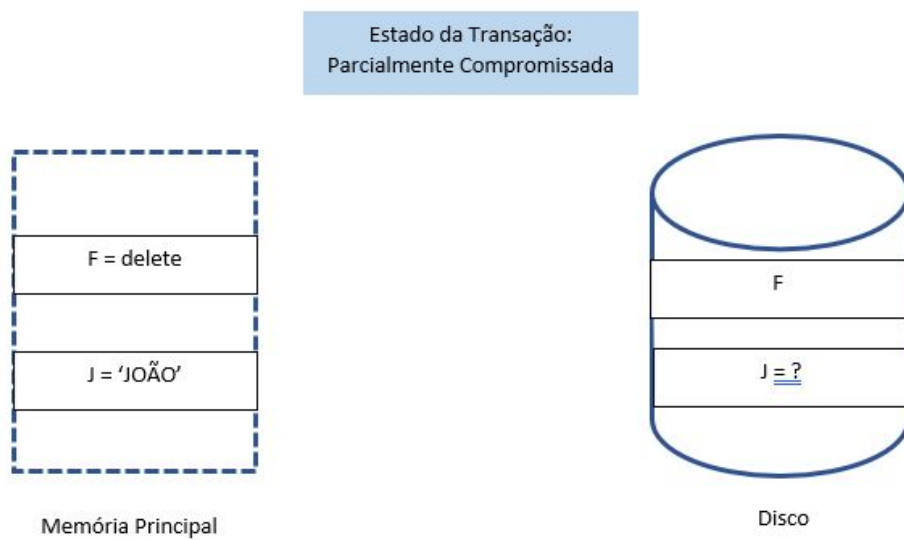
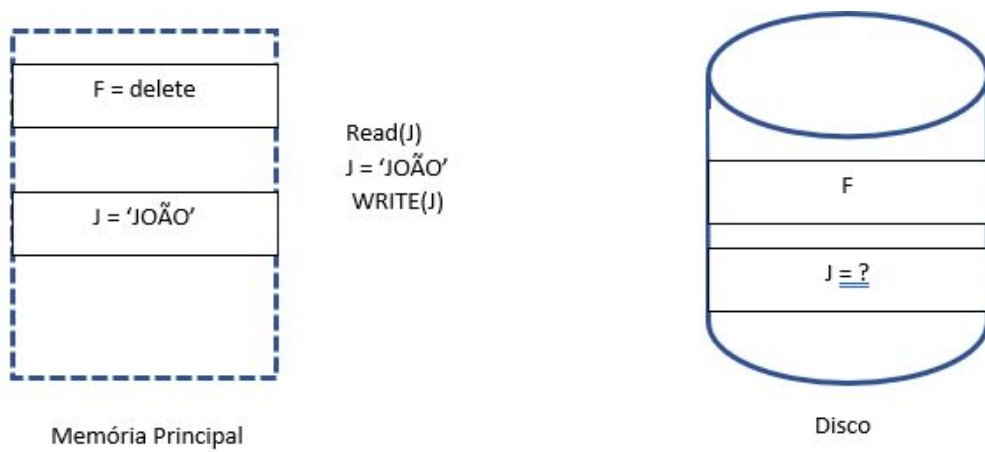
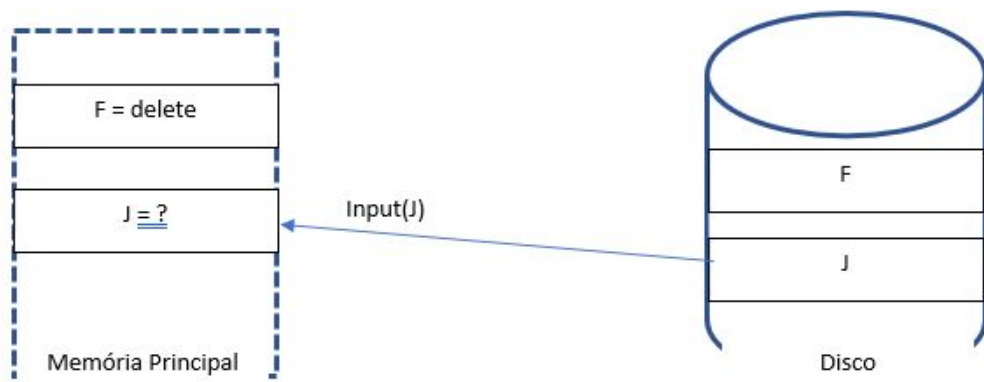
Estado de transação: Committed

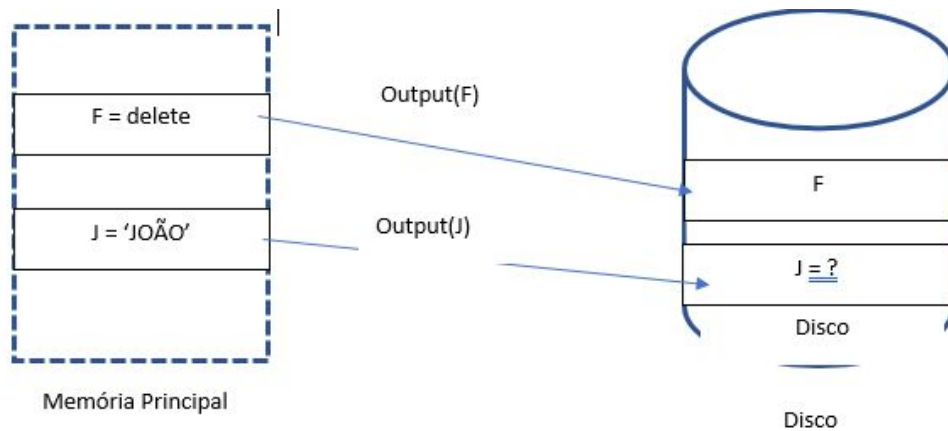




Transação 3:







3. a) Se a transação for executada até o final ela está parcialmente compromissada, o que quer dizer que toda a transação foi executada e as variáveis A e B têm, respectivamente, os valores de 110 e de 45 na memória RAM. Após a transação T a variável A assume o valor de 115.

b) O registro A será somente atualizado para o valor de 105 na variável da memória RAM e o registro B continuará com o valor de 50. Após a transação S, a variável A assume o valor de 115 e B tem atribuído a si o valor de 45. Mesmos valores finais da alternativa anterior.