



# Estructura de dades

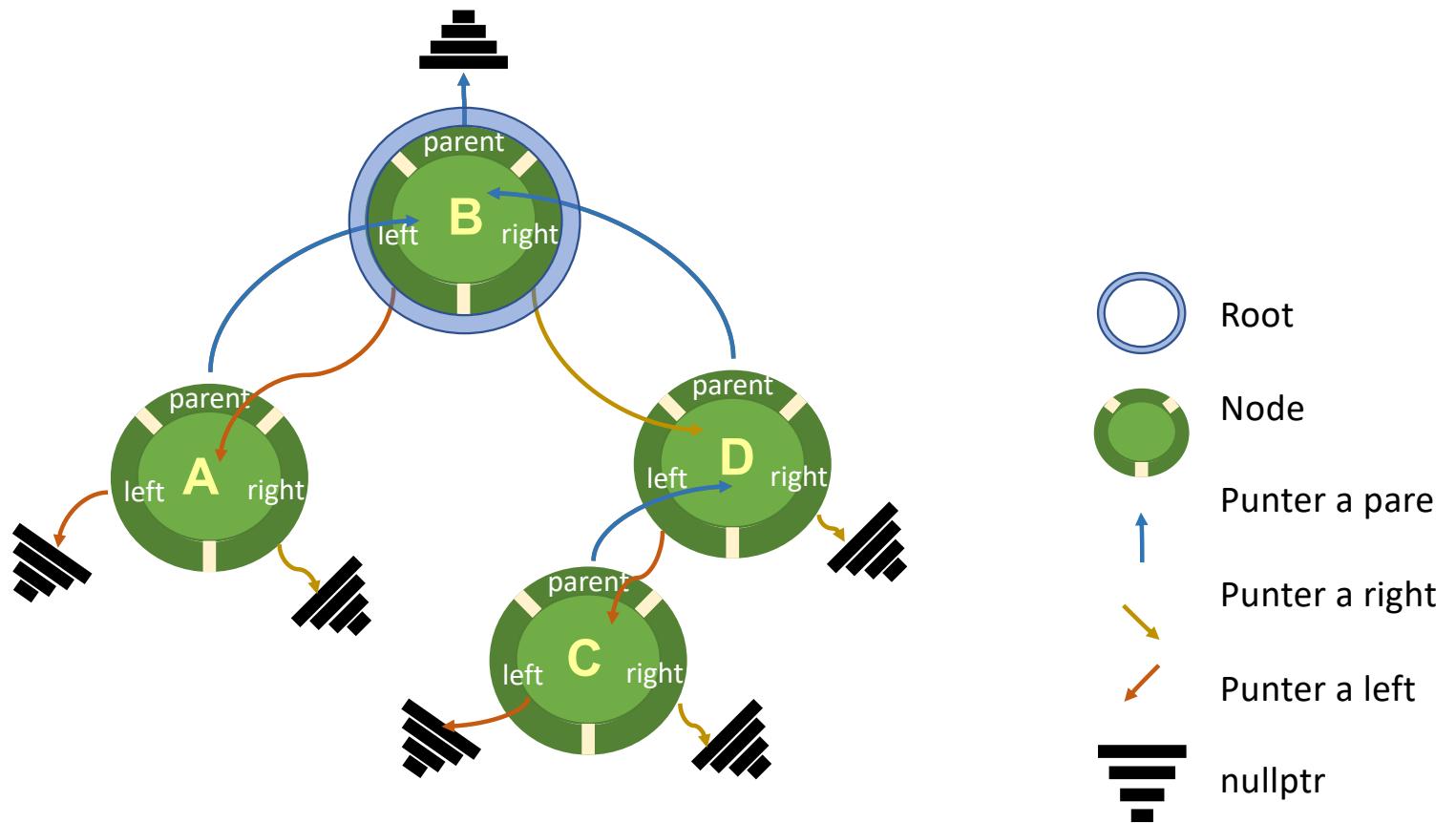
**Diapositives de suport Pràctica 3 Arbres**



UNIVERSITAT DE  
BARCELONA

# Notació Arbres

# Arbres amb Estructures Encadenades

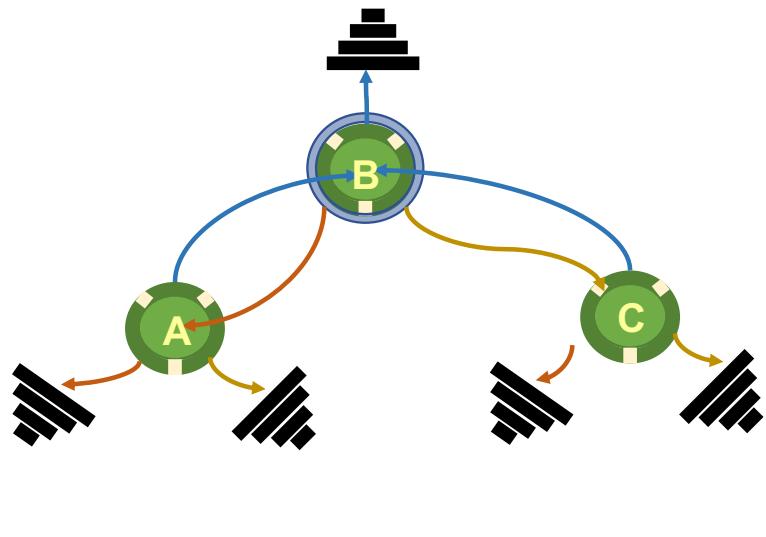




UNIVERSITAT DE  
BARCELONA

# Recorreguts

# Recorreguts

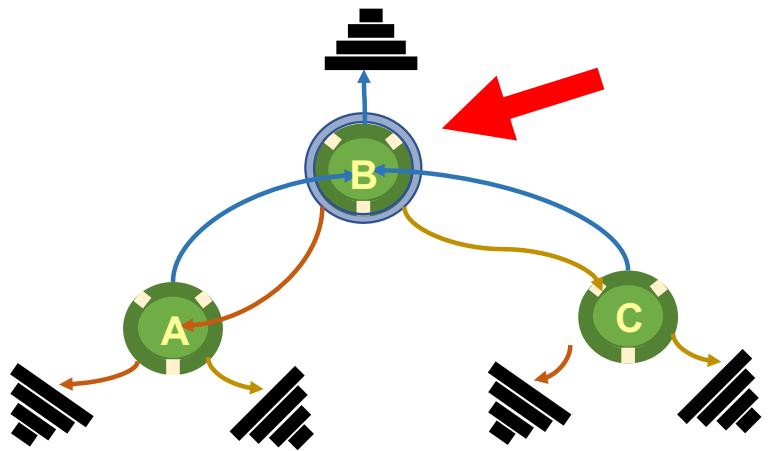


Sempre recorrem d'esquerra a dreta

El que varia en els recorreguts  
**preordre, inordre i postordre** és quan  
“tractem” el pare.

A      C

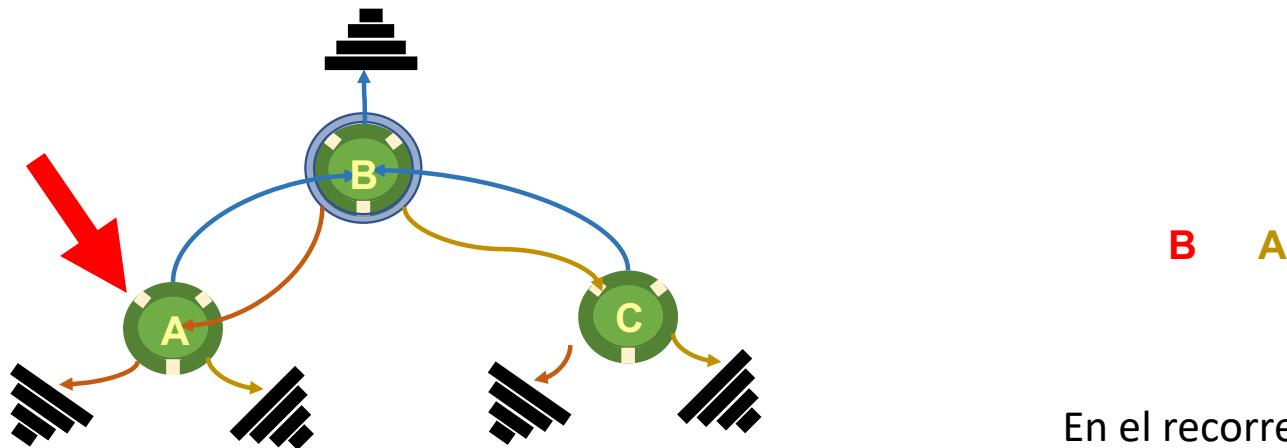
# Recorregut preordre



B

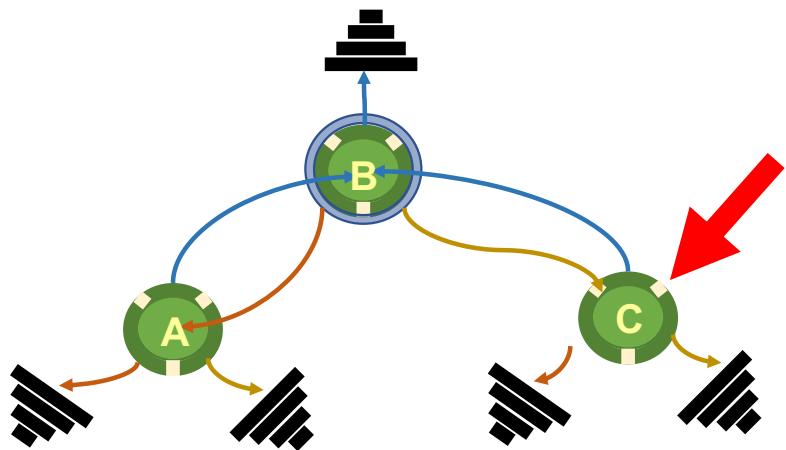
En el recorregut **preordre** el pare es tracta **prèviament** als fills

# Recorregut preordre



En el recorregut **preordre** el pare es tracta **prèviament** als fills

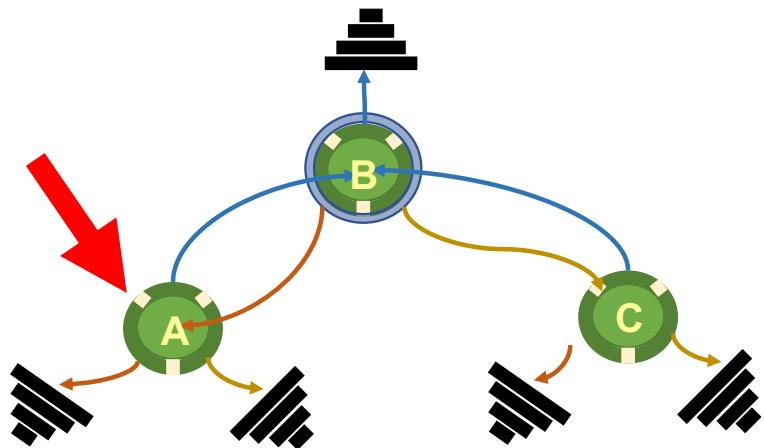
# Recorregut preordre



B A C

En el recorregut **preordre** el pare es tracta **prèviament** als fills

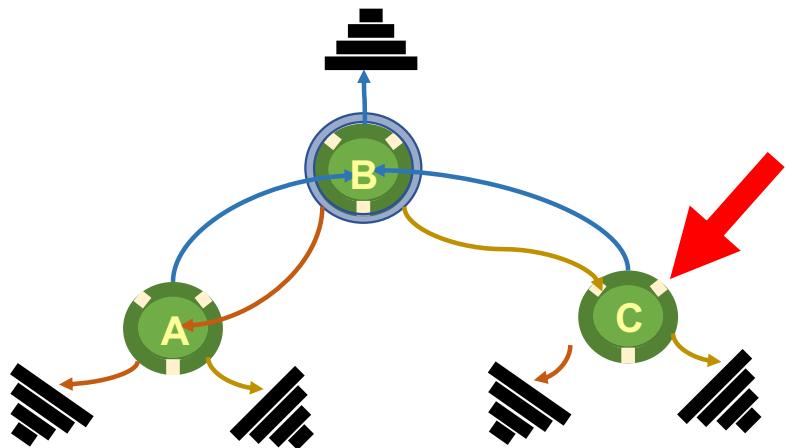
# Recorregut postordre



A

En el recorregut **postordre** el pare  
es tracta **posteriorment** als fills

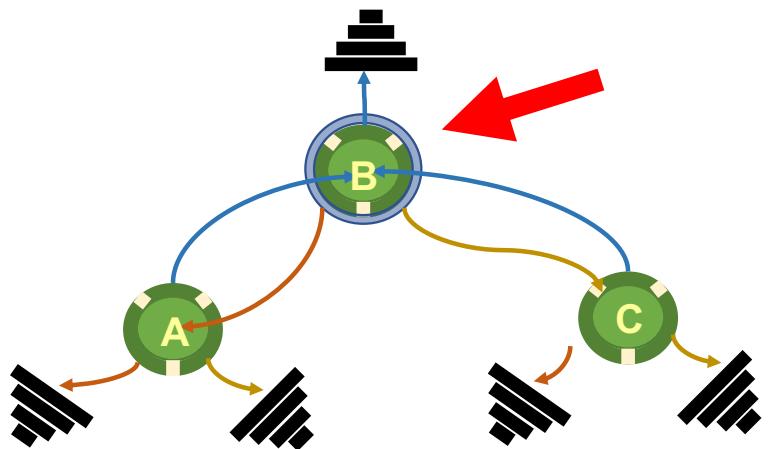
# Recorregut postordre



A C

En el recorregut **postordre** el pare  
es tracta **posteriorment** als fills

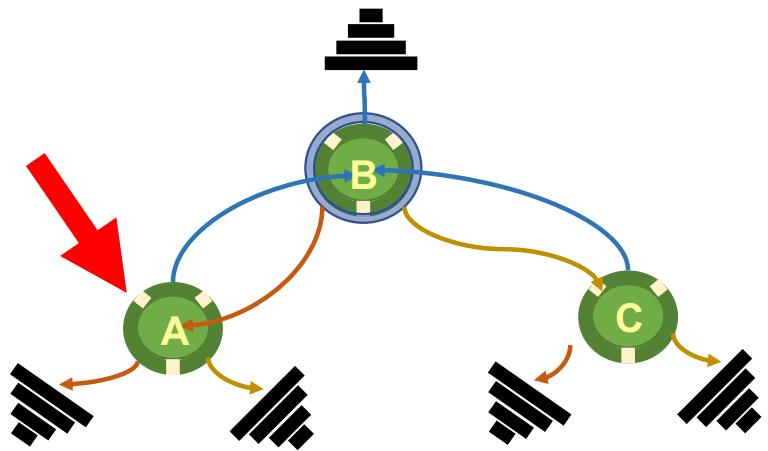
# Recorregut postordre



A C B

En el recorregut **postordre** el pare  
es tracta **posteriorment** als fills

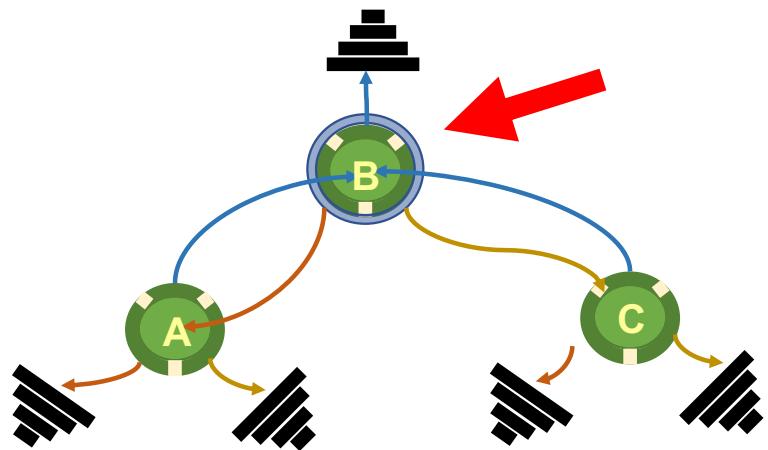
# Recorregut inordre



A

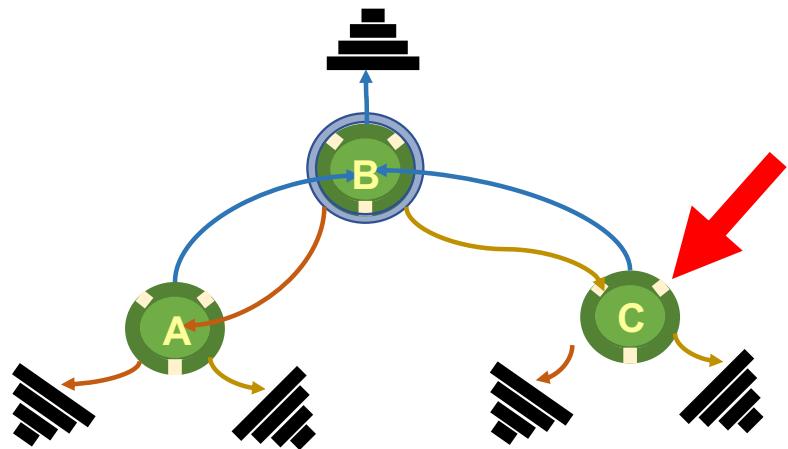
En el recorregut **inordre** el pare es  
tracta **entre** els fills

# Recorregut inordre



En el recorregut **inordre** el pare es  
tracta **entre** els fills

# Recorregut inordre



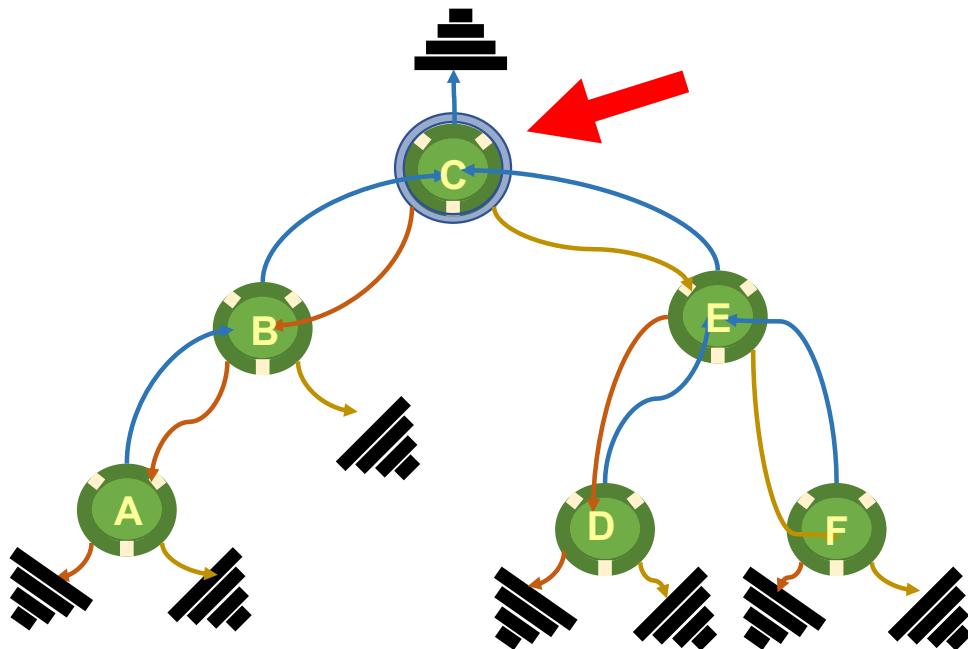
A B C

En el recorregut **inordre** el pare es tracta **entre** els fills

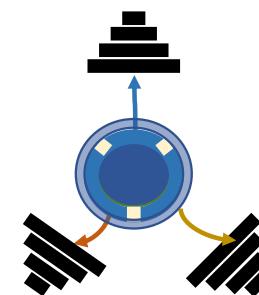


# Constructor còpia

## Arbre original

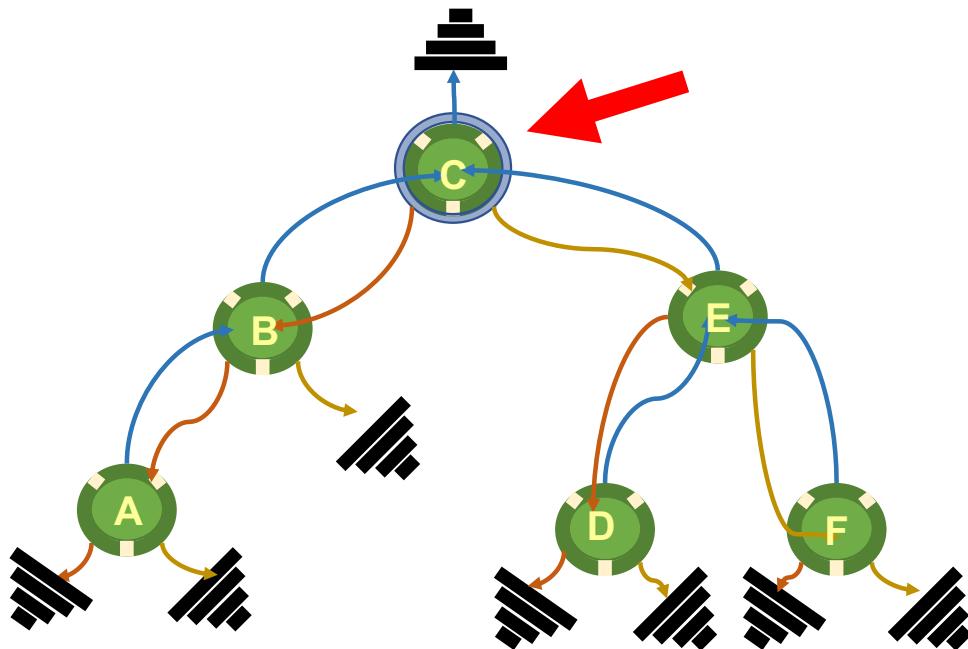


## Arbre còpia

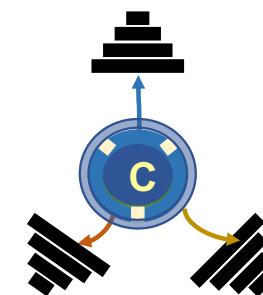


Recorrem l'arbre original en preordre

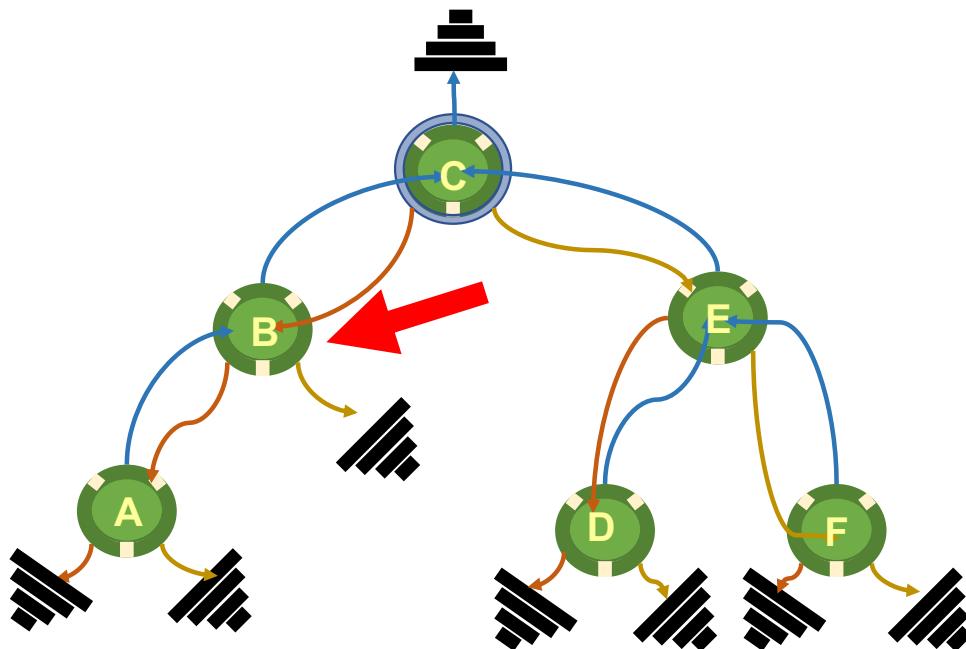
## Arbre original



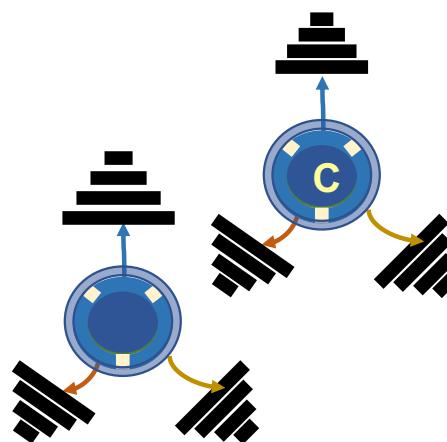
## Arbre còpia



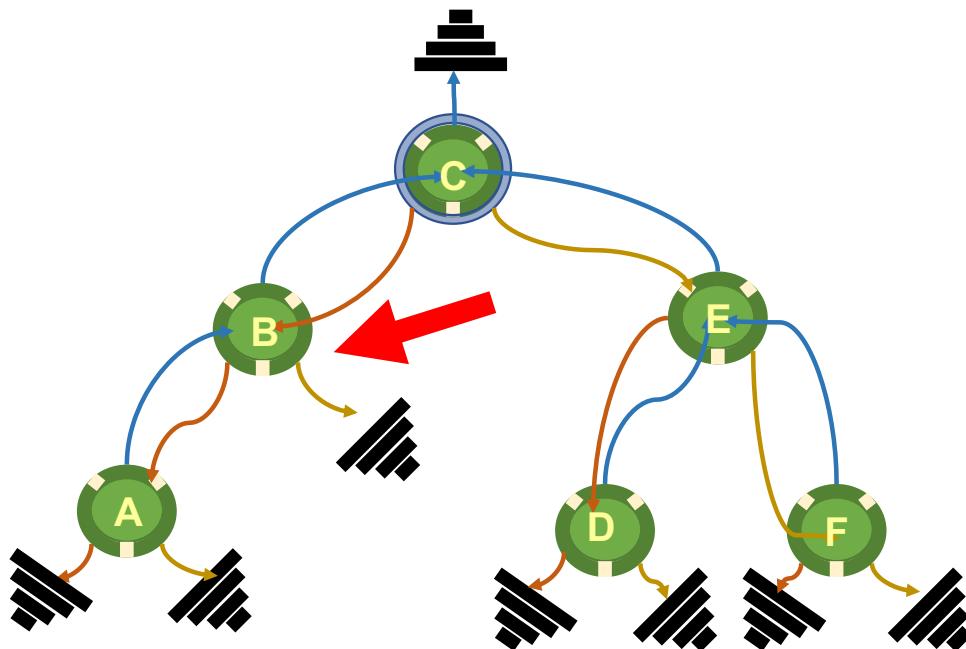
## Arbre original



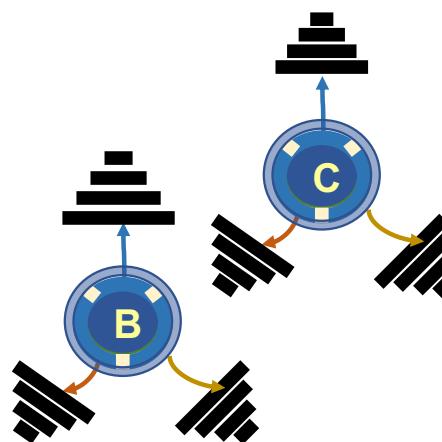
## Arbre còpia



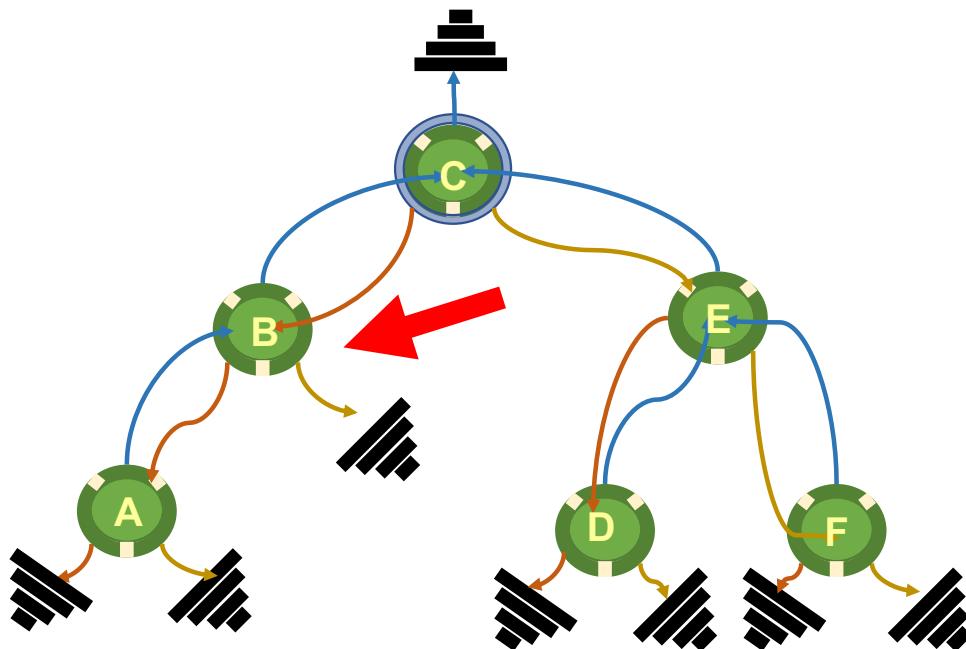
## Arbre original



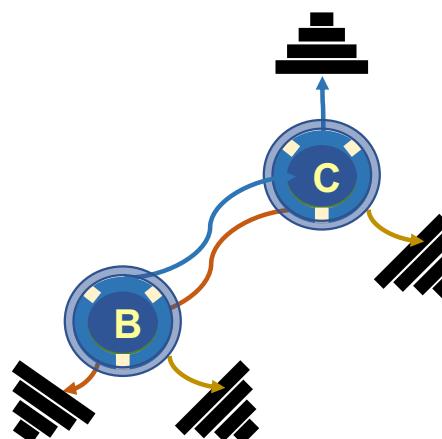
## Arbre còpia



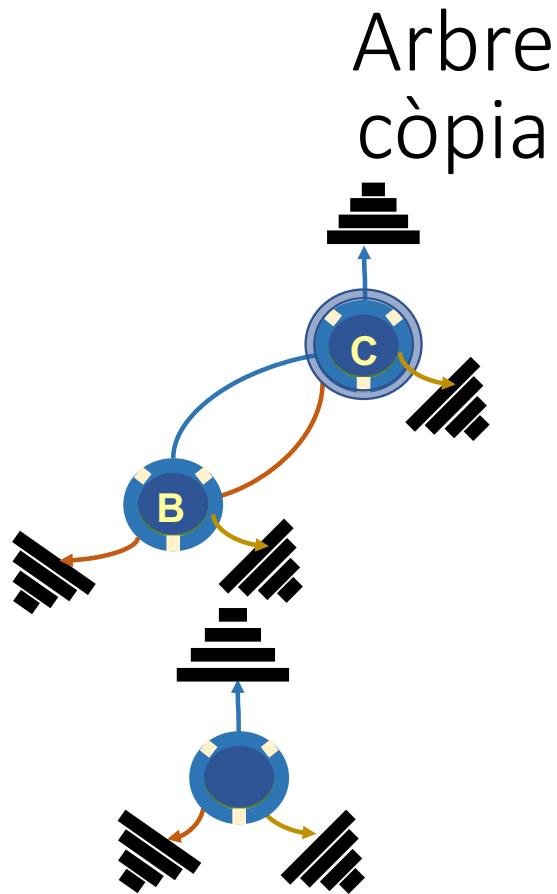
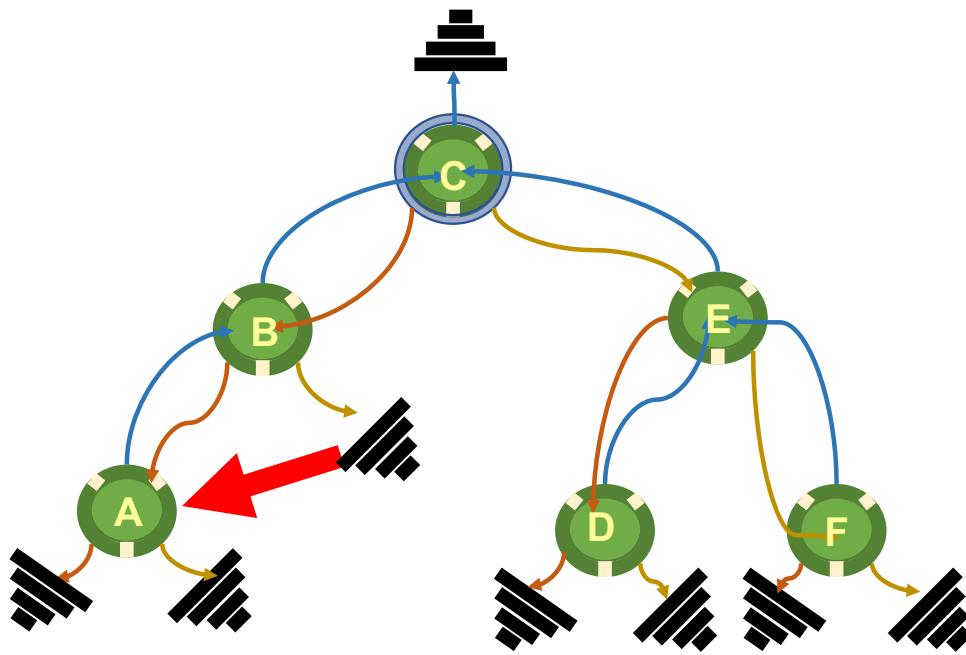
## Arbre original



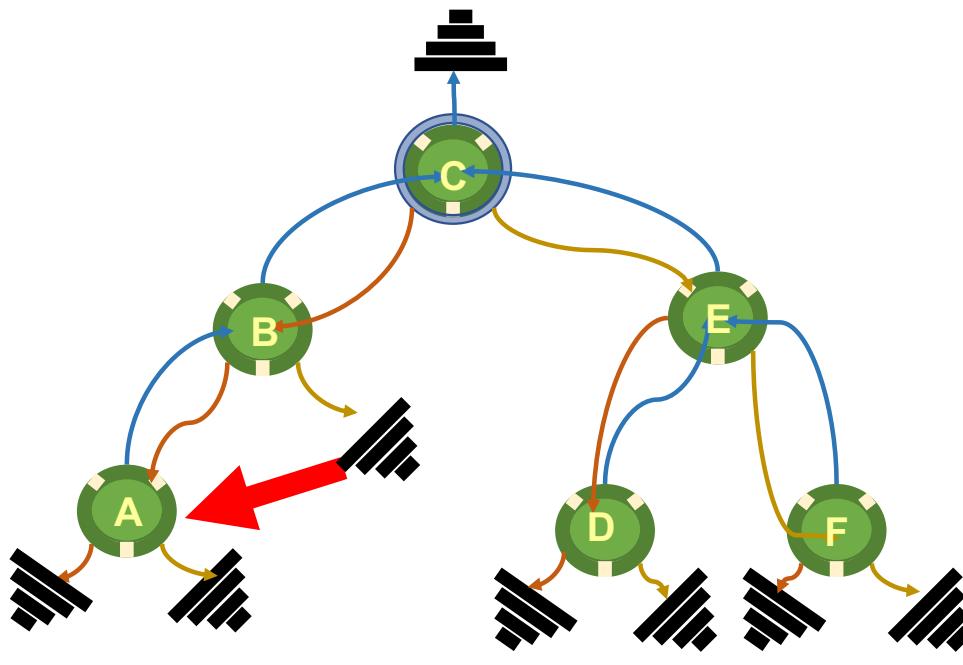
## Arbre còpia



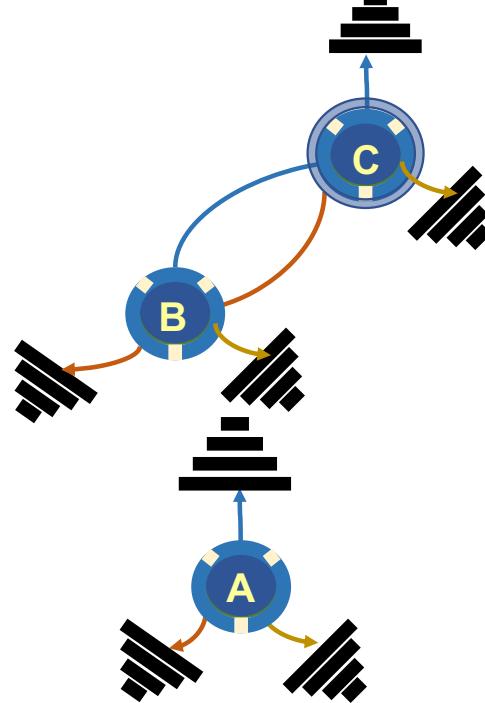
## Arbre original



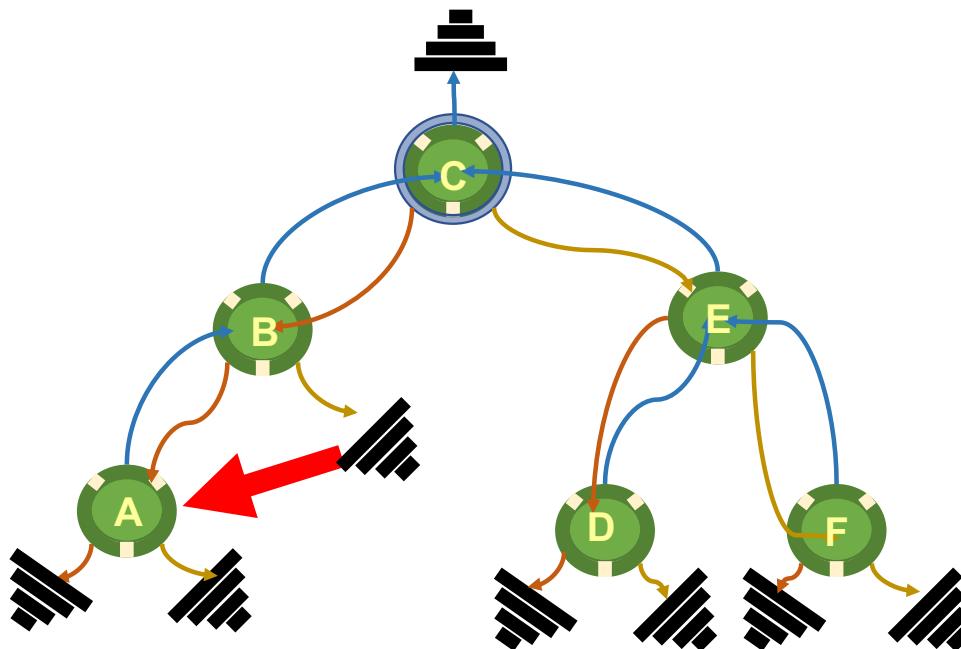
## Arbre original



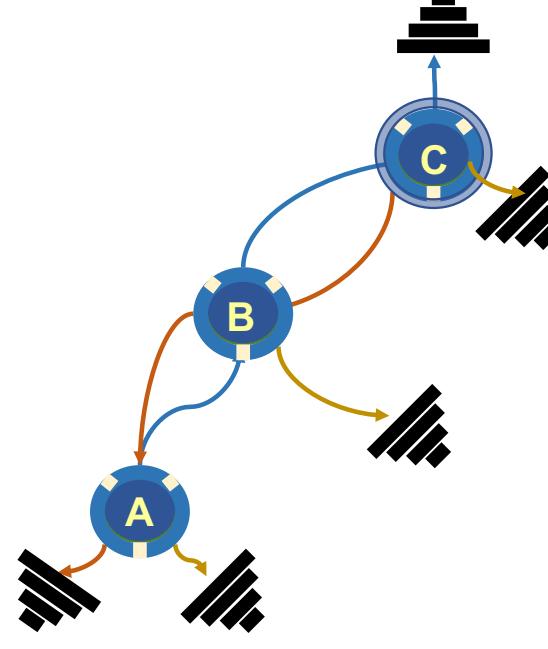
## Arbre còpia



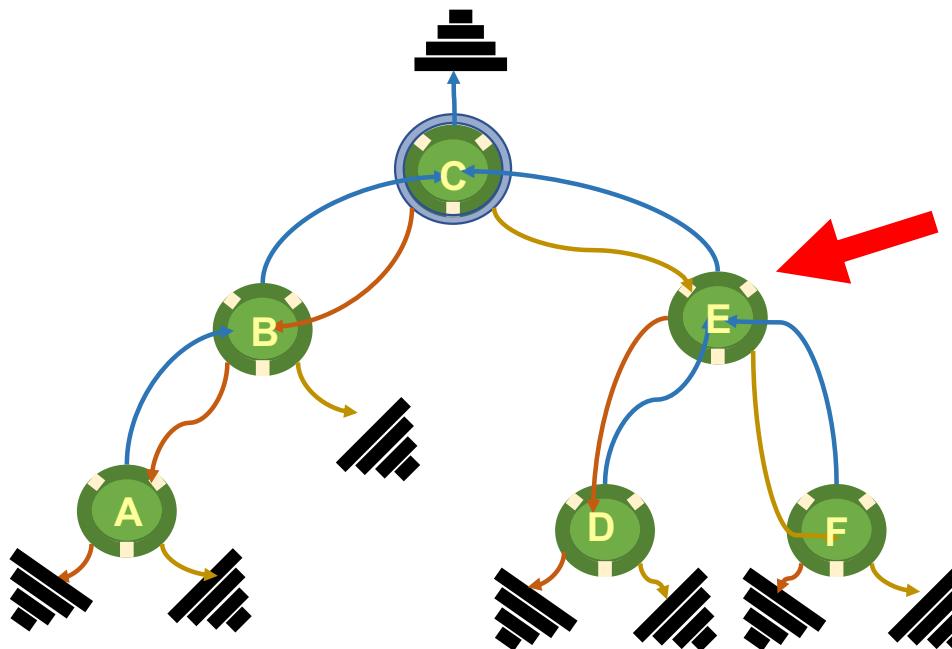
## Arbre original



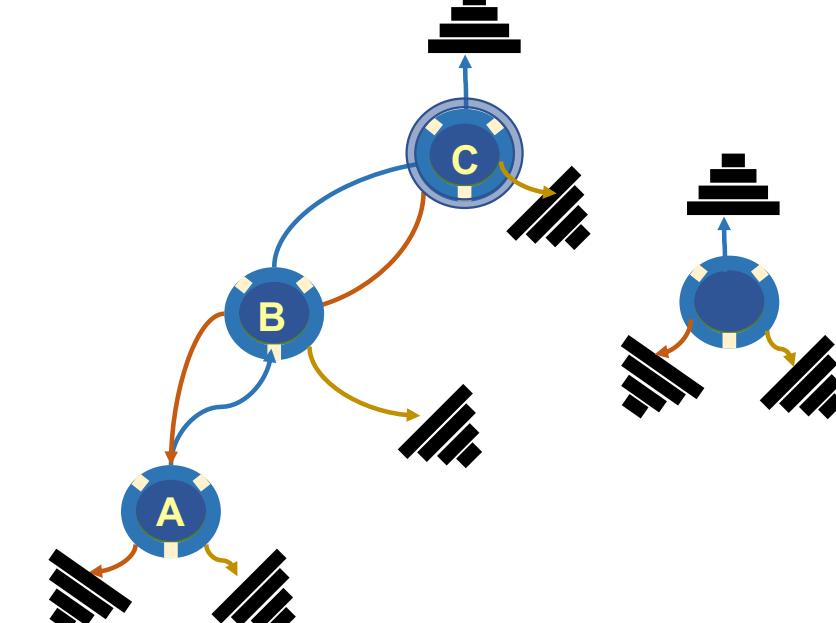
## Arbre còpia



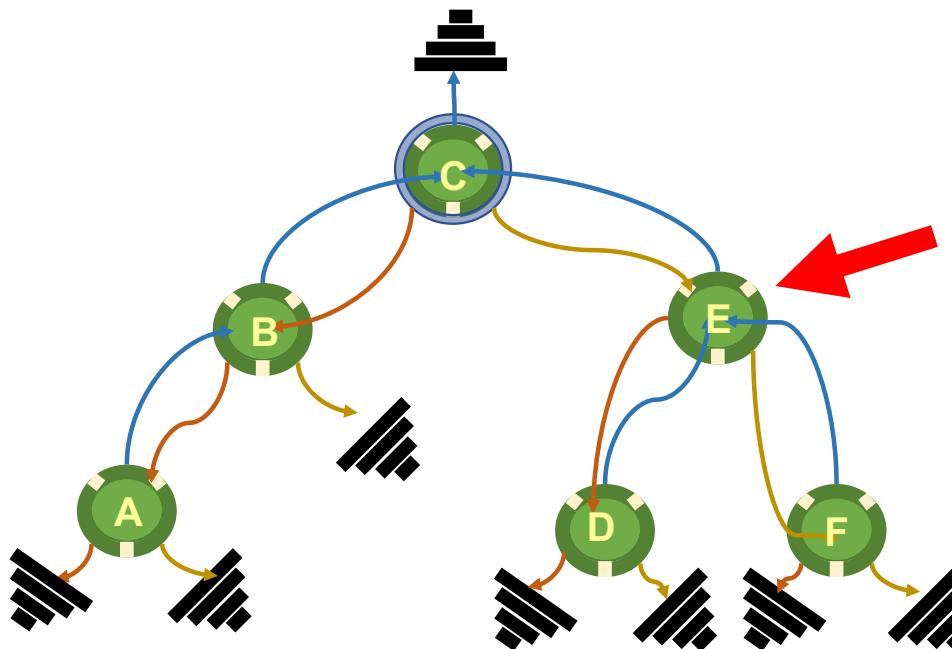
## Arbre original



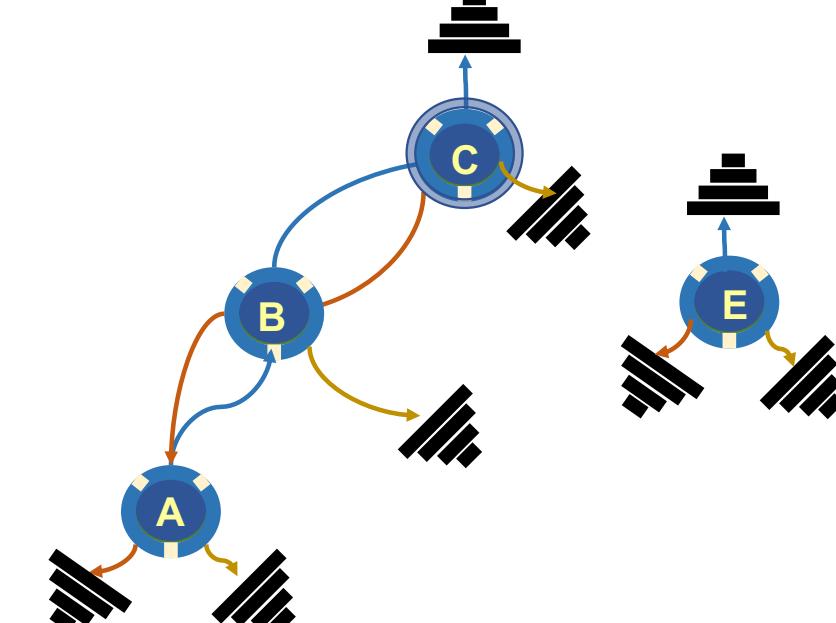
## Arbre còpia



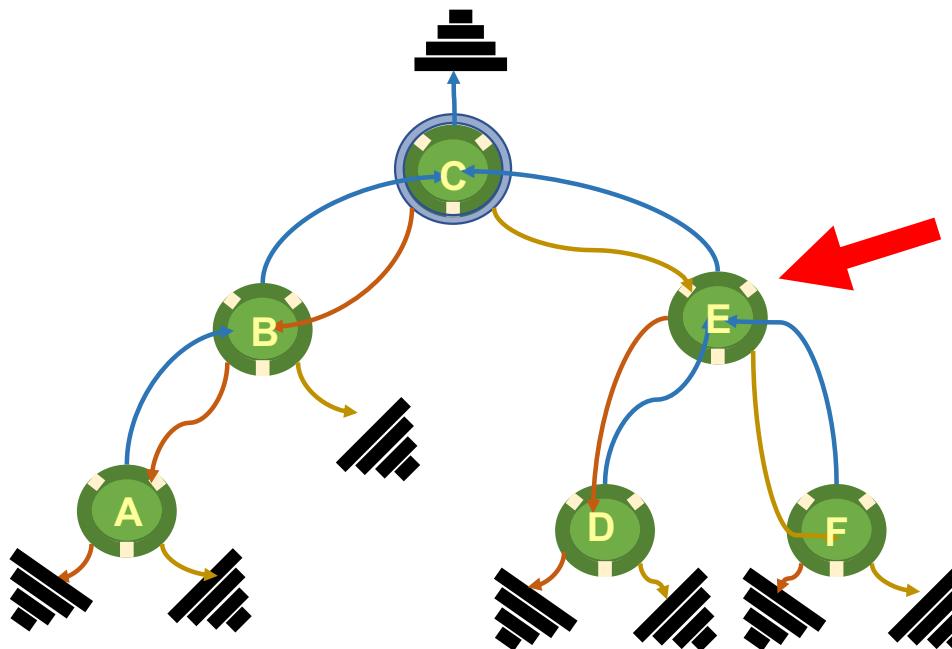
## Arbre original



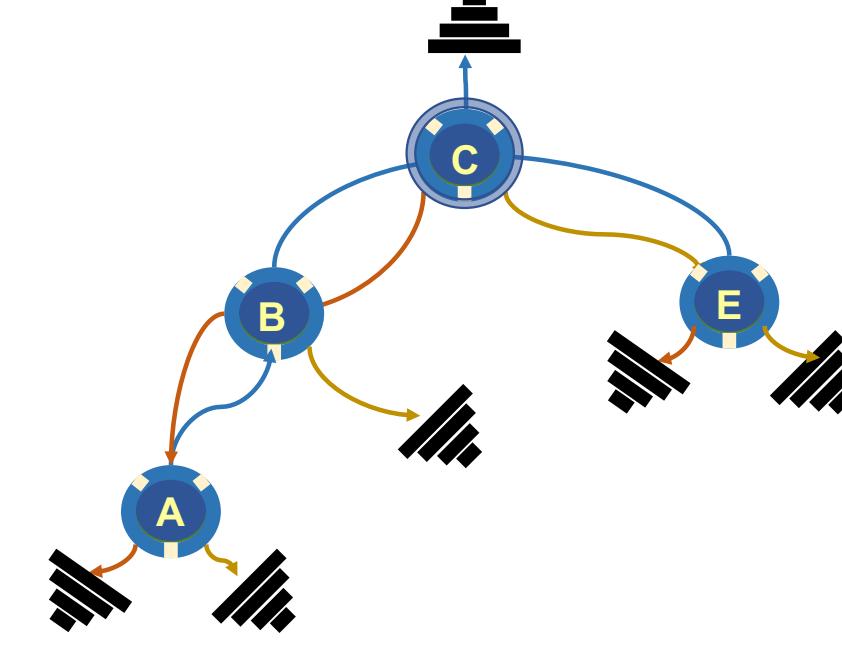
## Arbre còpia



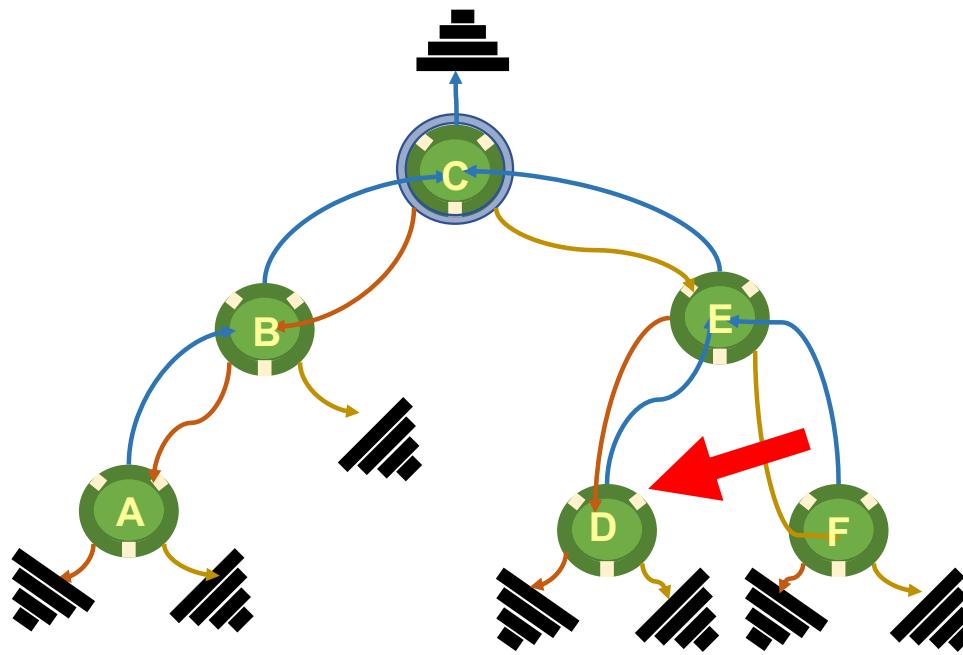
## Arbre original



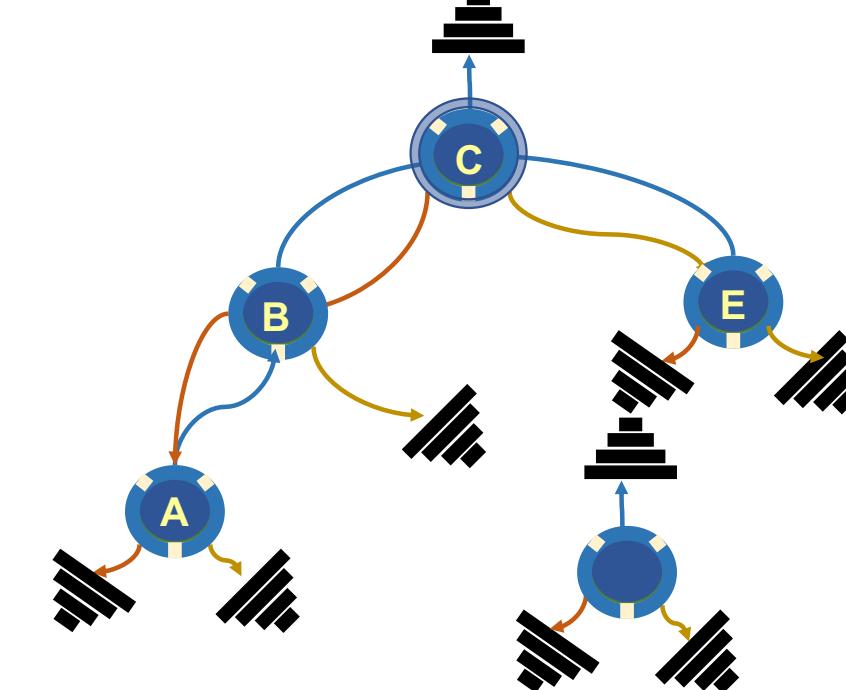
## Arbre còpia



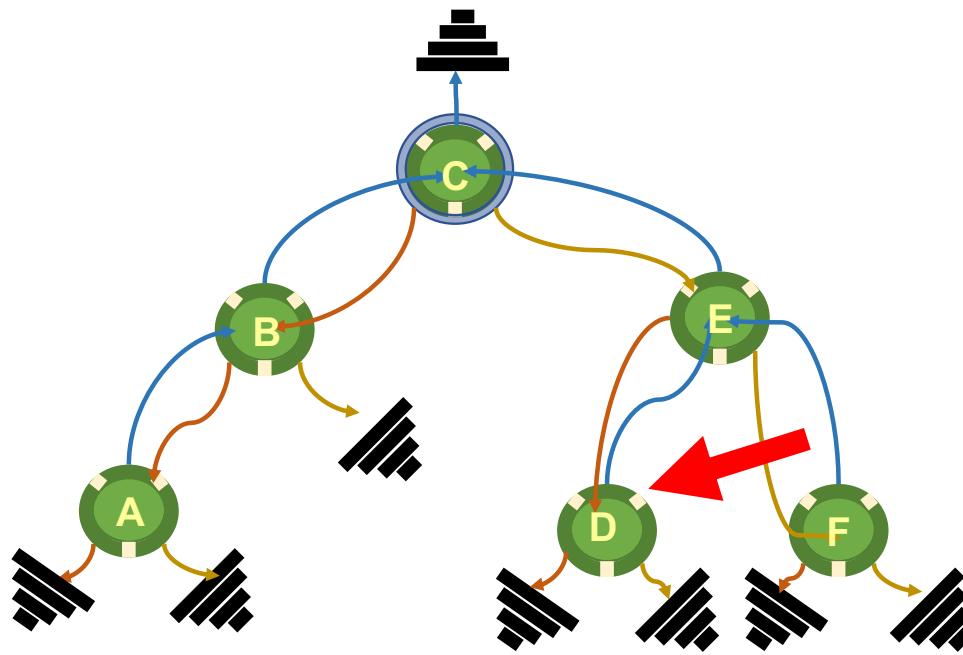
## Arbre original



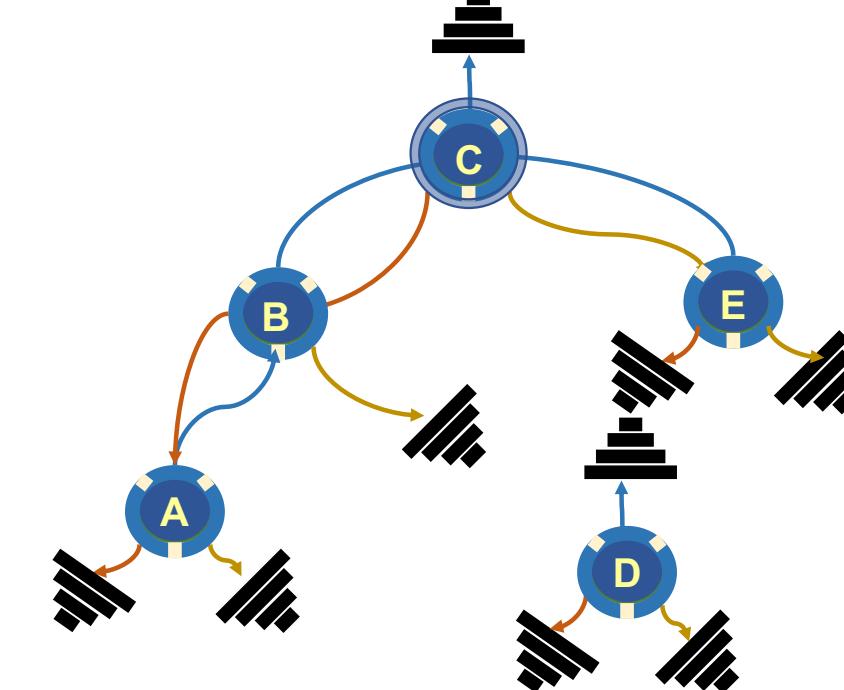
## Arbre còpia



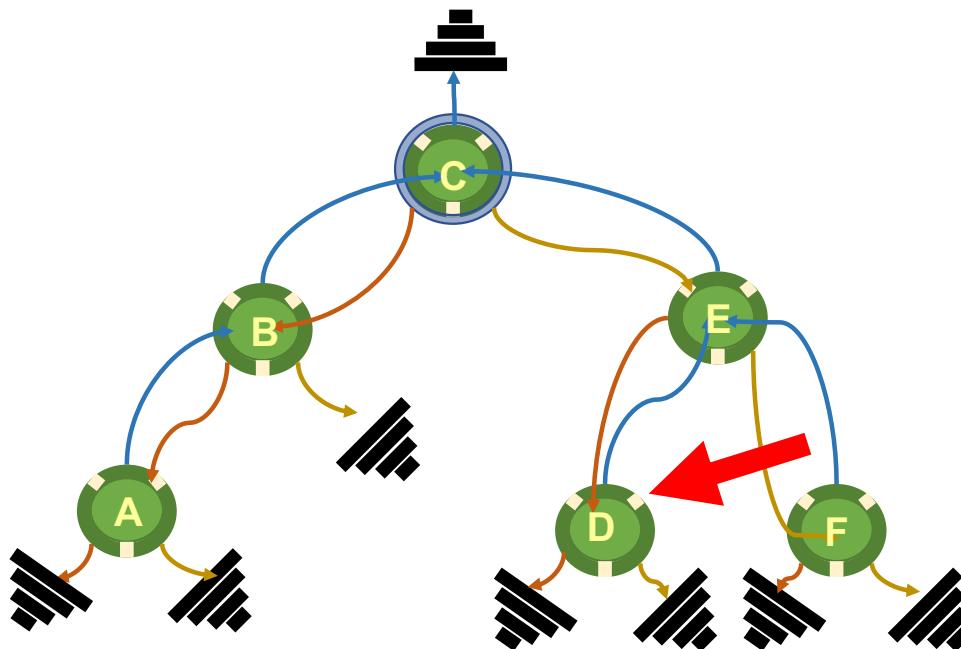
## Arbre original



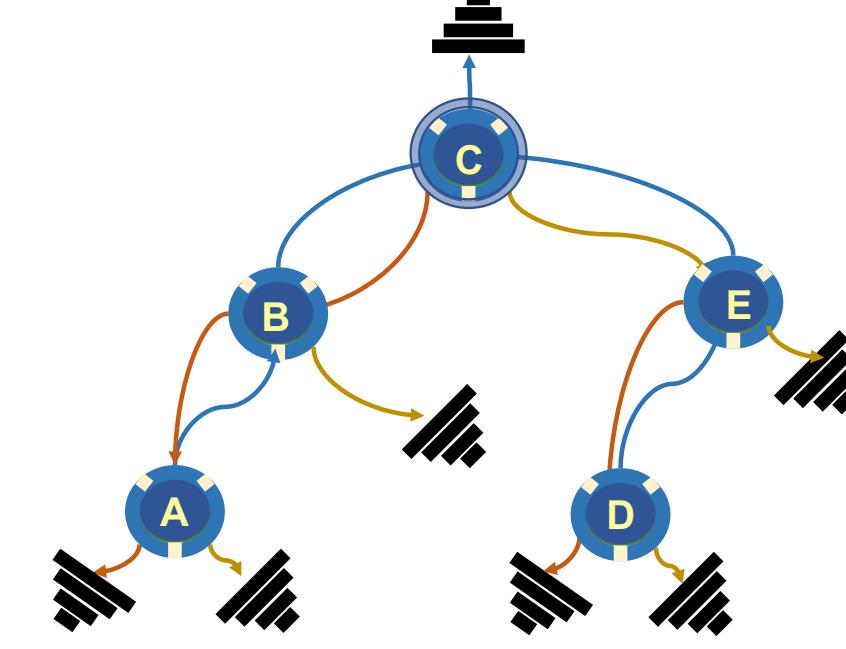
## Arbre còpia



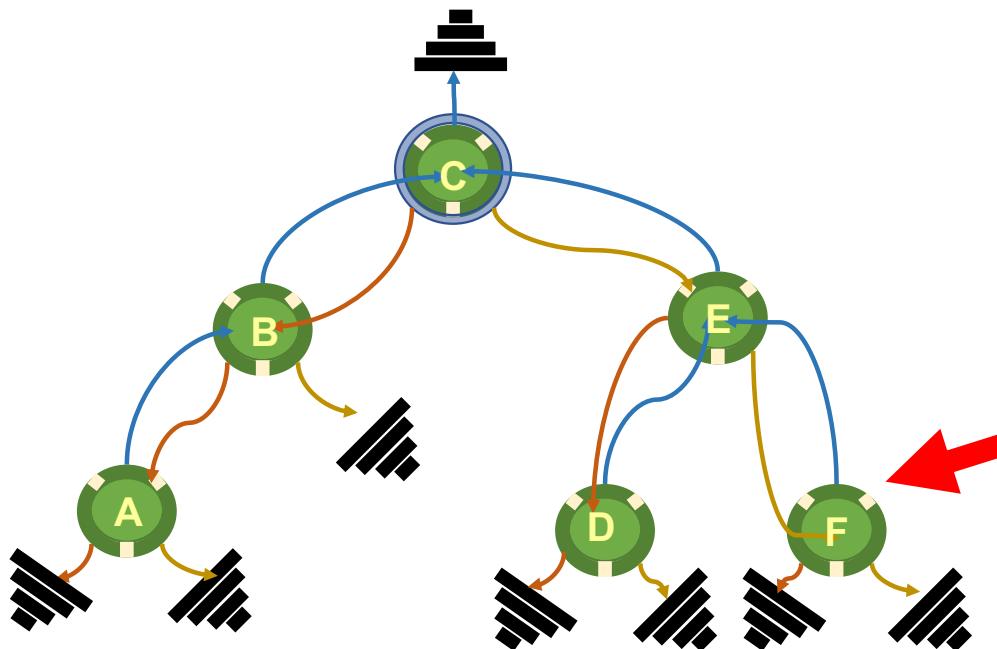
## Arbre original



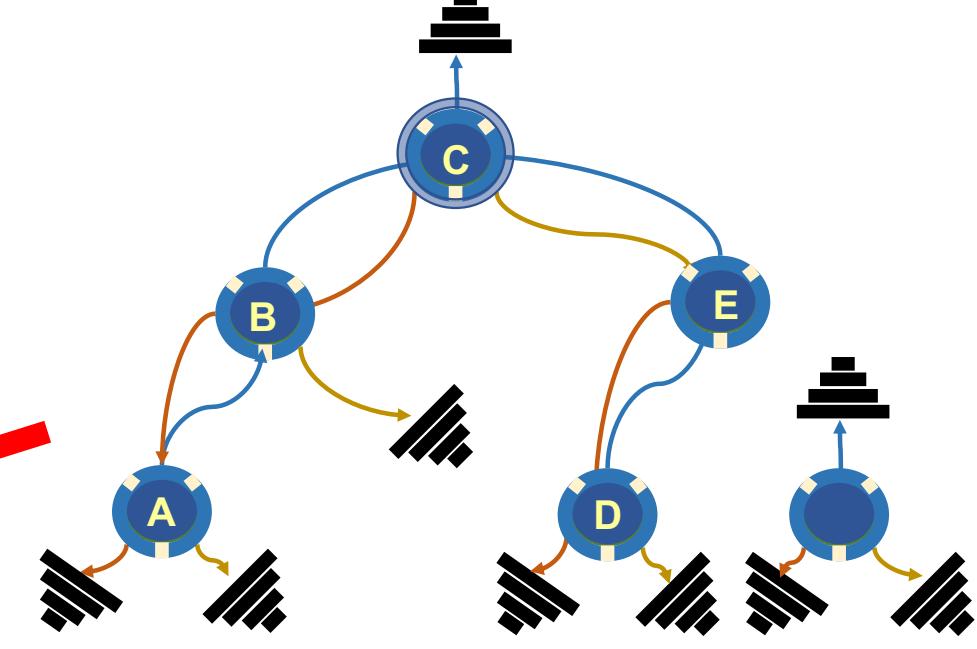
## Arbre còpia



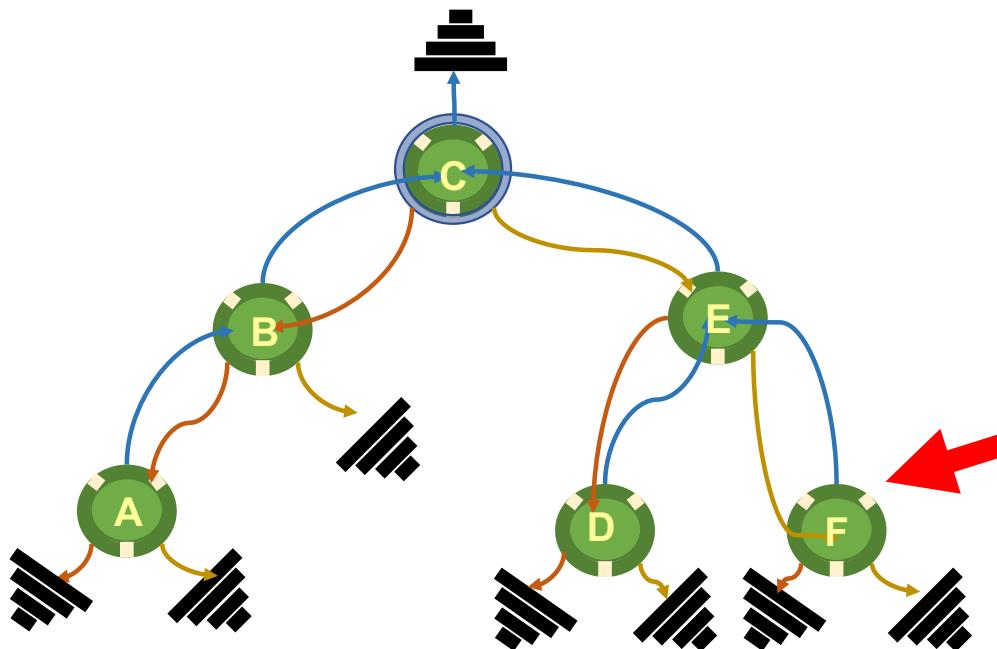
## Arbre original



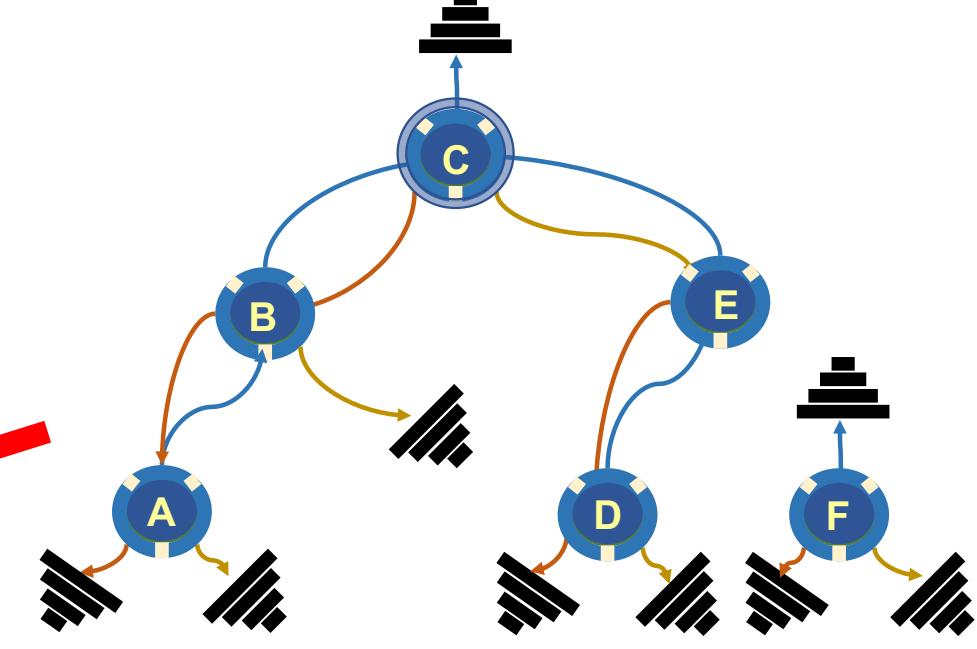
## Arbre còpia



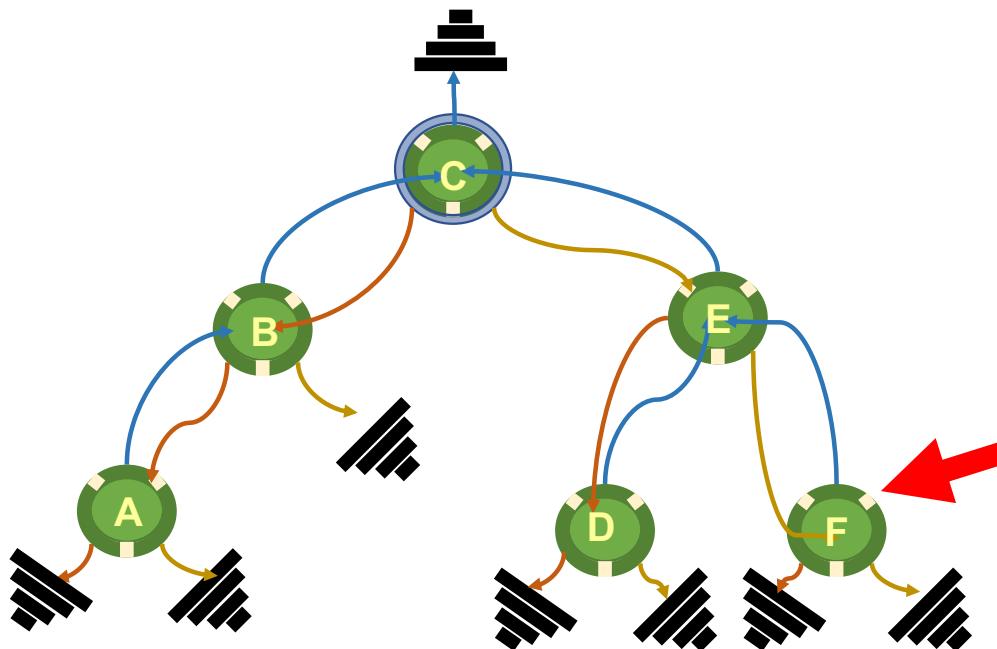
## Arbre original



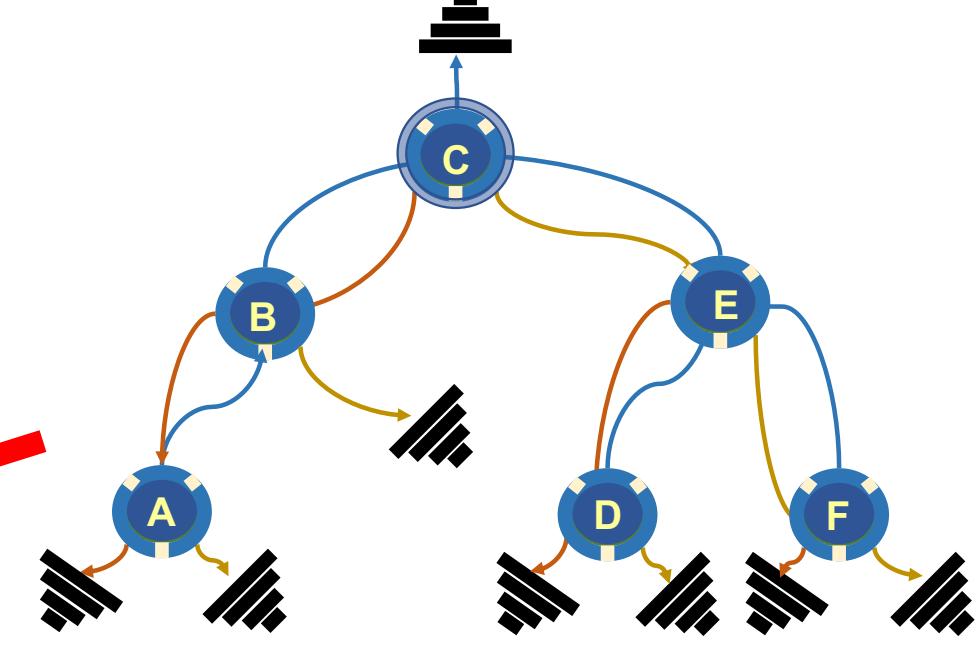
## Arbre còpia



## Arbre original



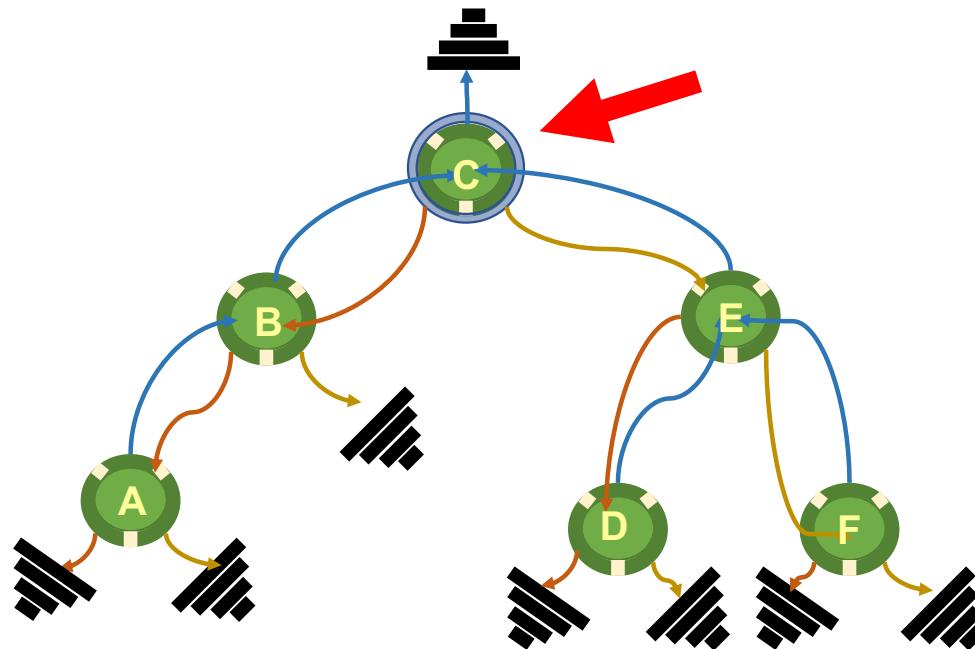
## Arbre còpia



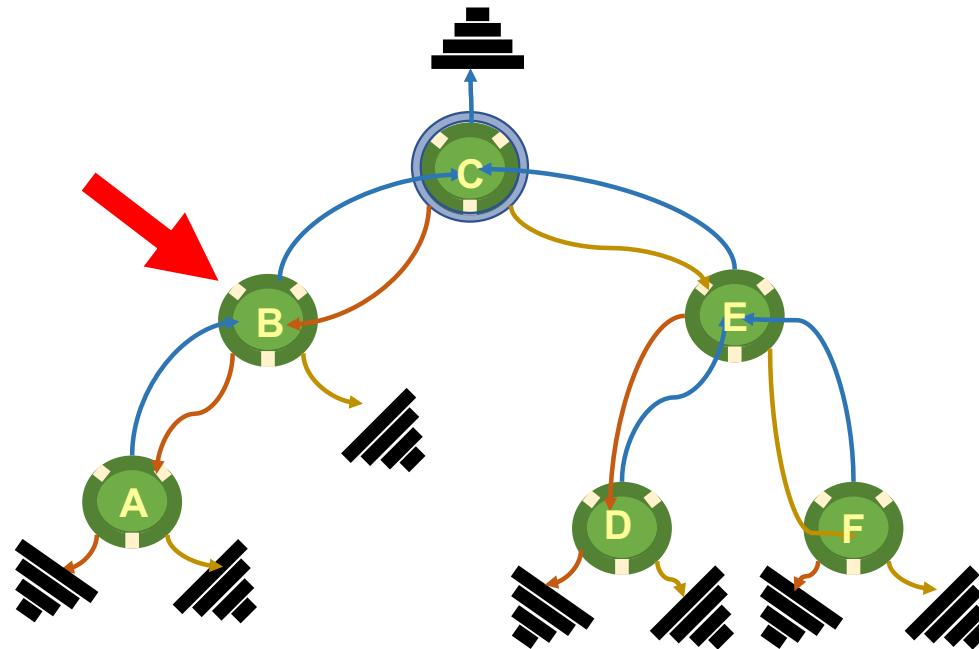


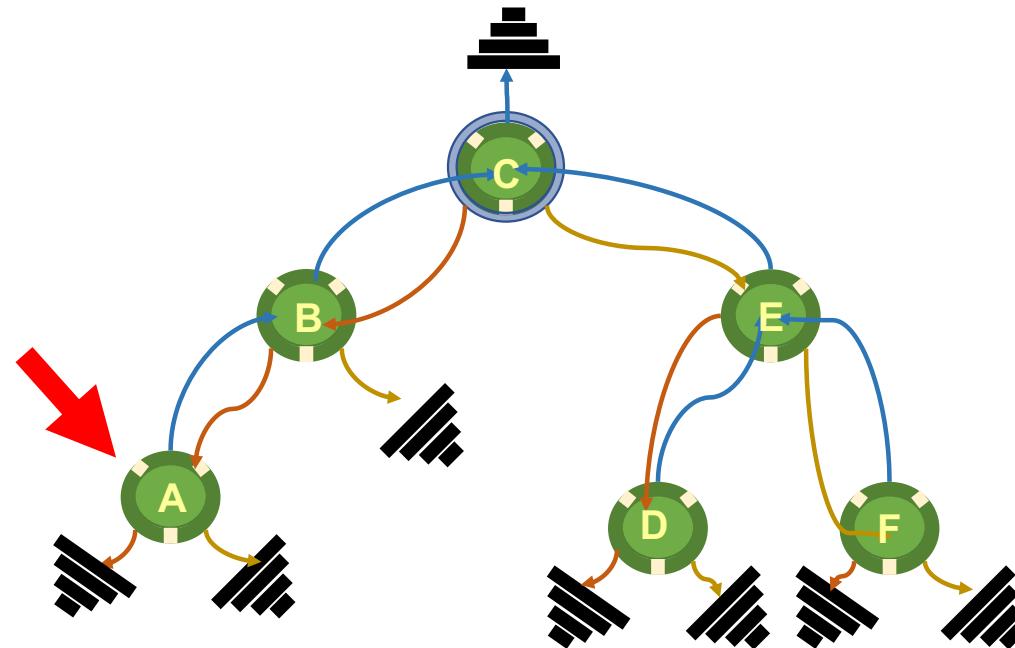
UNIVERSITAT DE  
BARCELONA

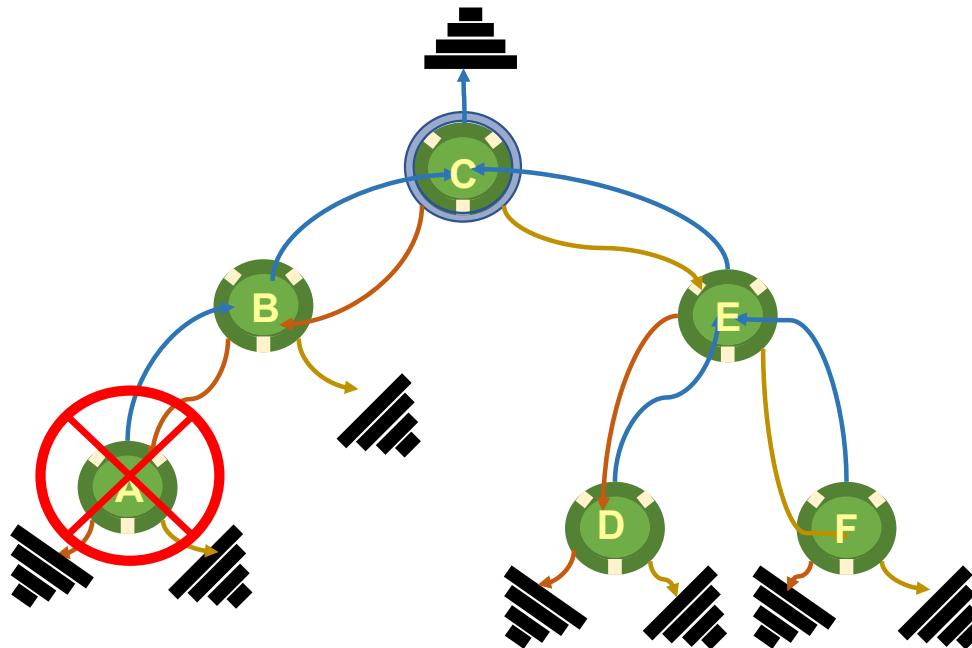
# Destructor

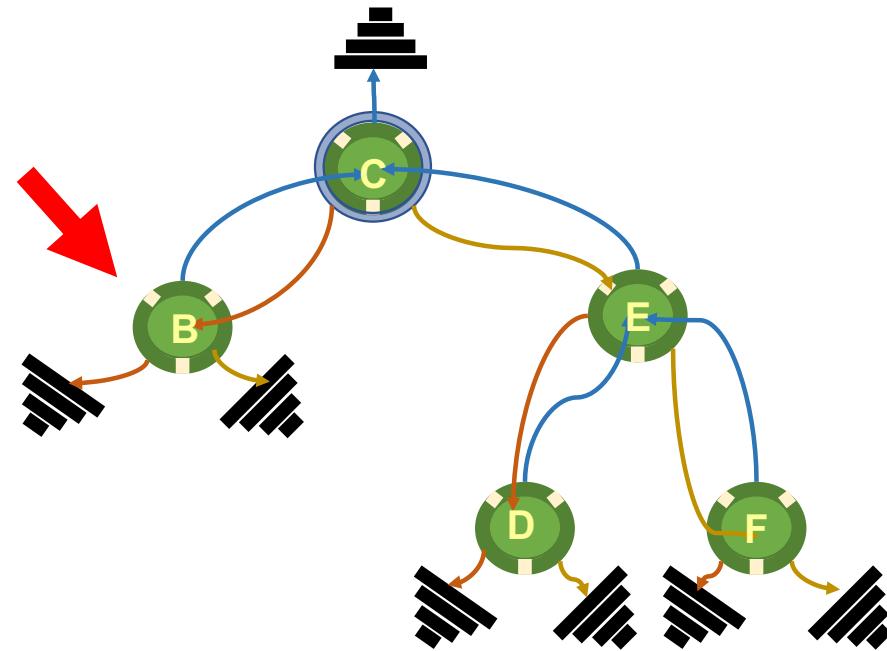


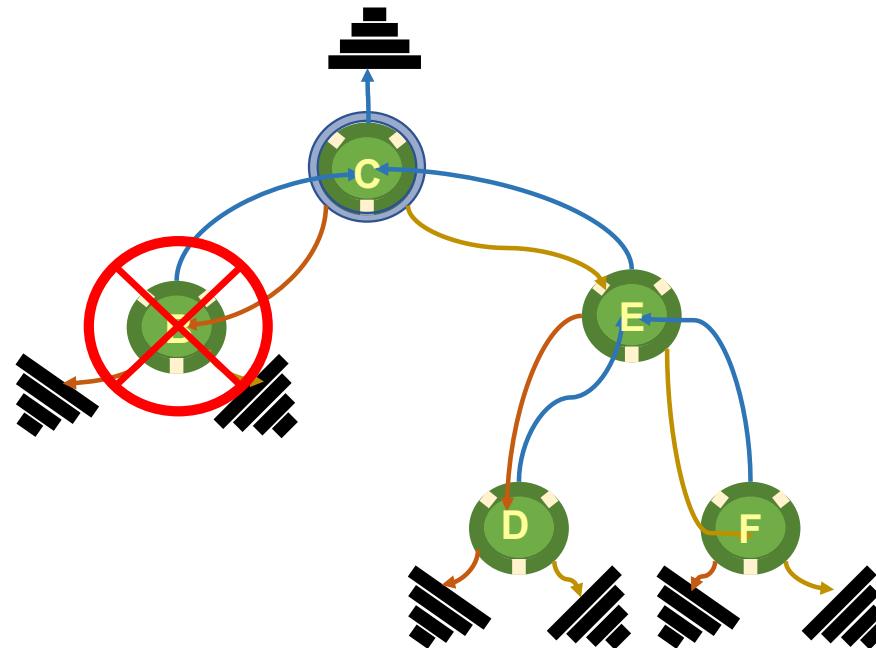
Recorrem l'arbre original en postordre

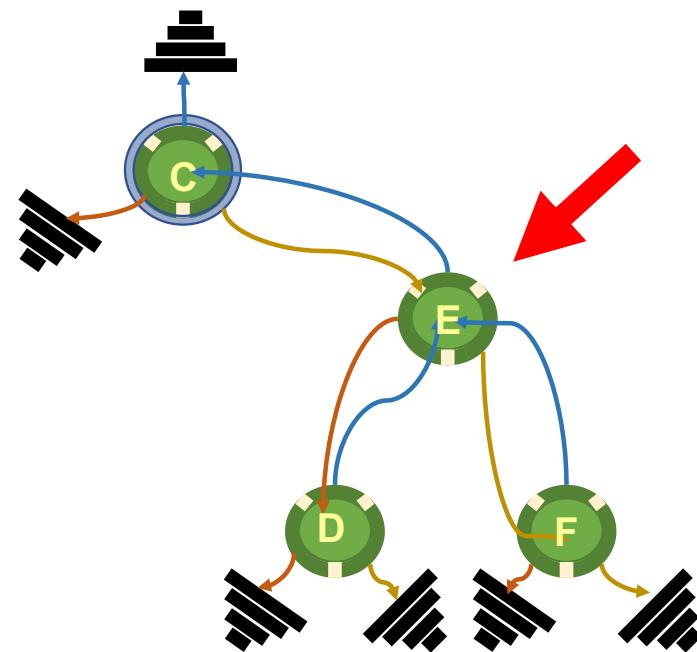


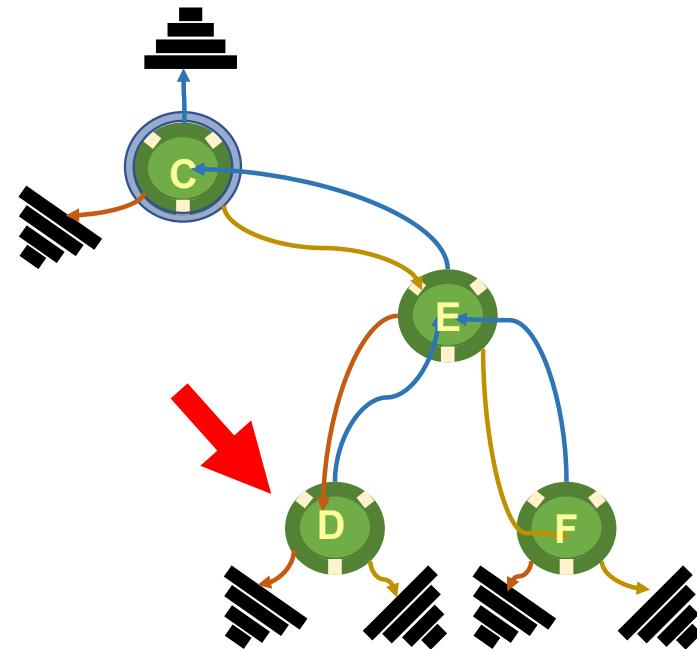


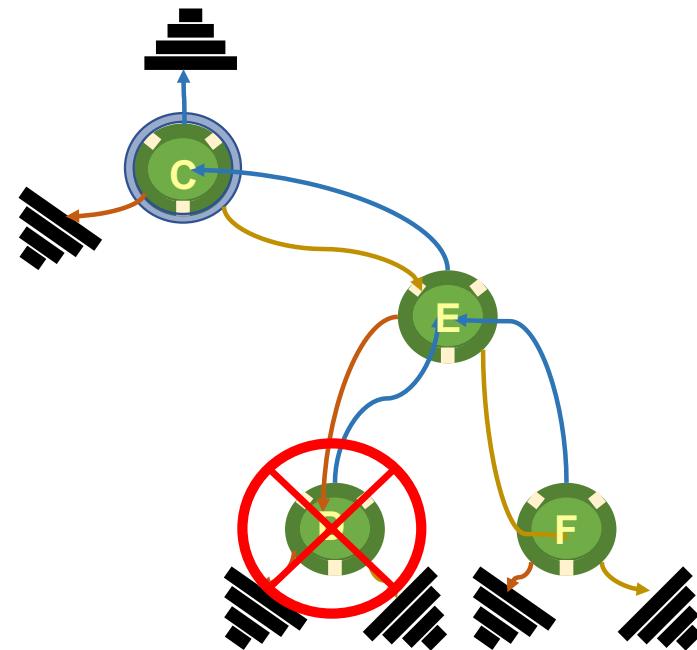


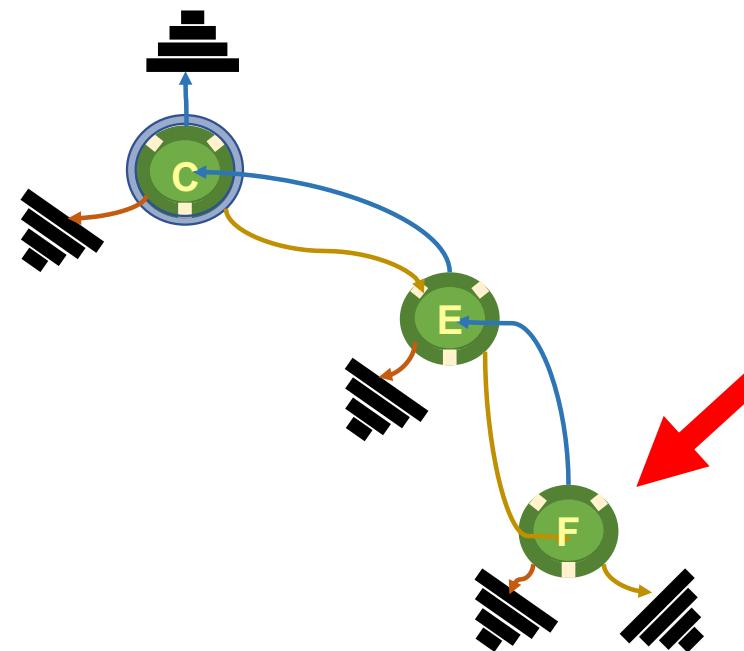


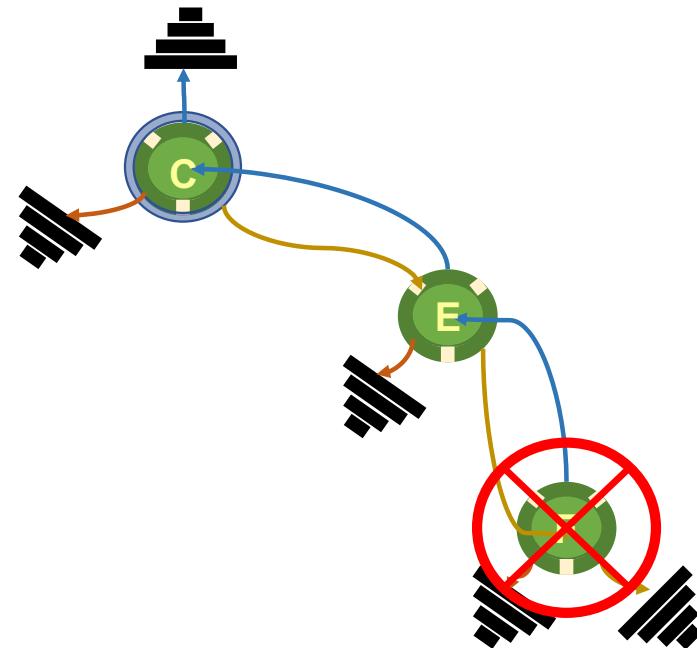


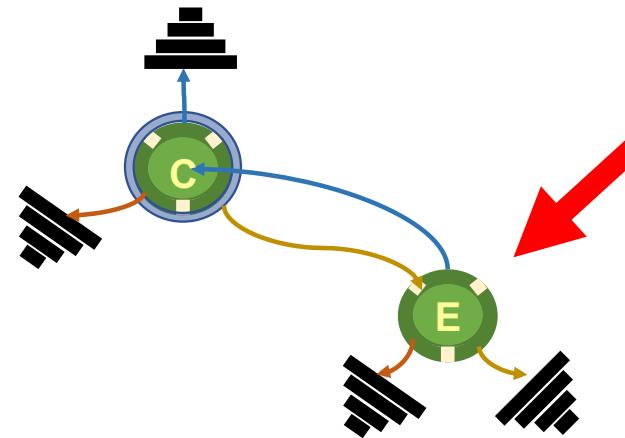


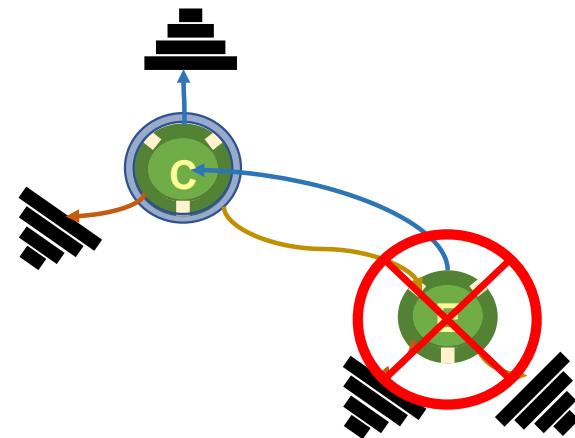






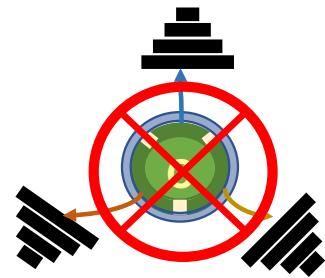








UNIVERSITAT DE  
BARCELONA

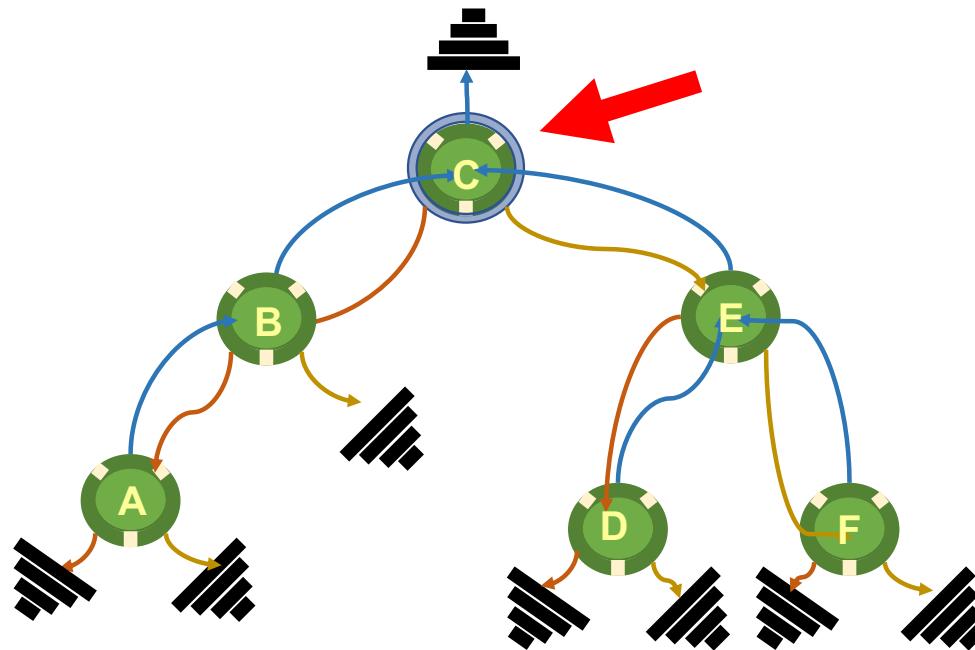


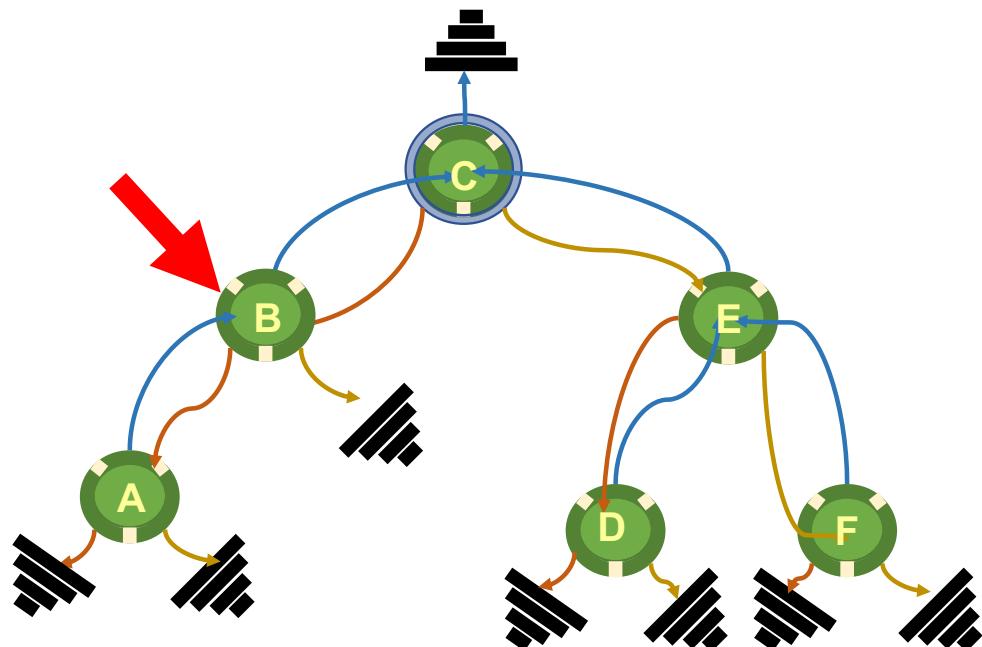


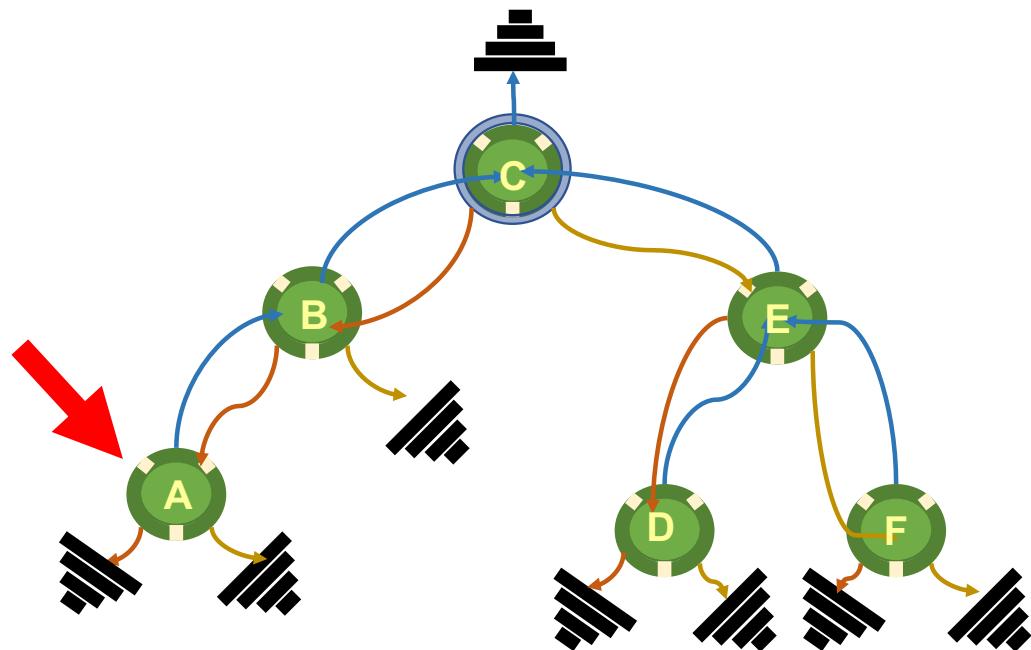
L'arbre ha desaparegut en la seva totalitat



# Un exemple de recorregut: showInorder

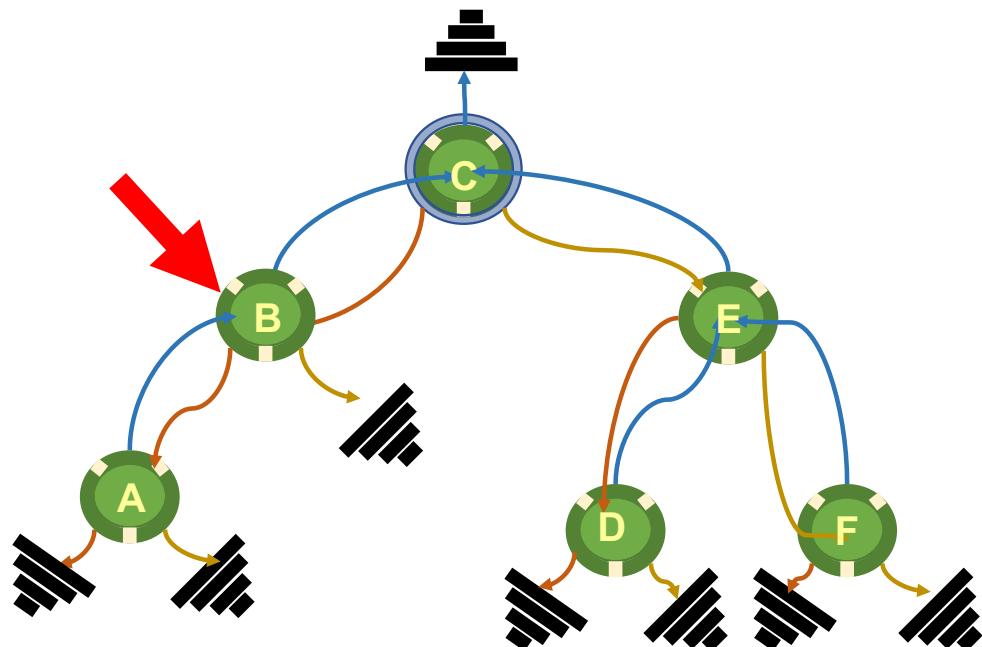






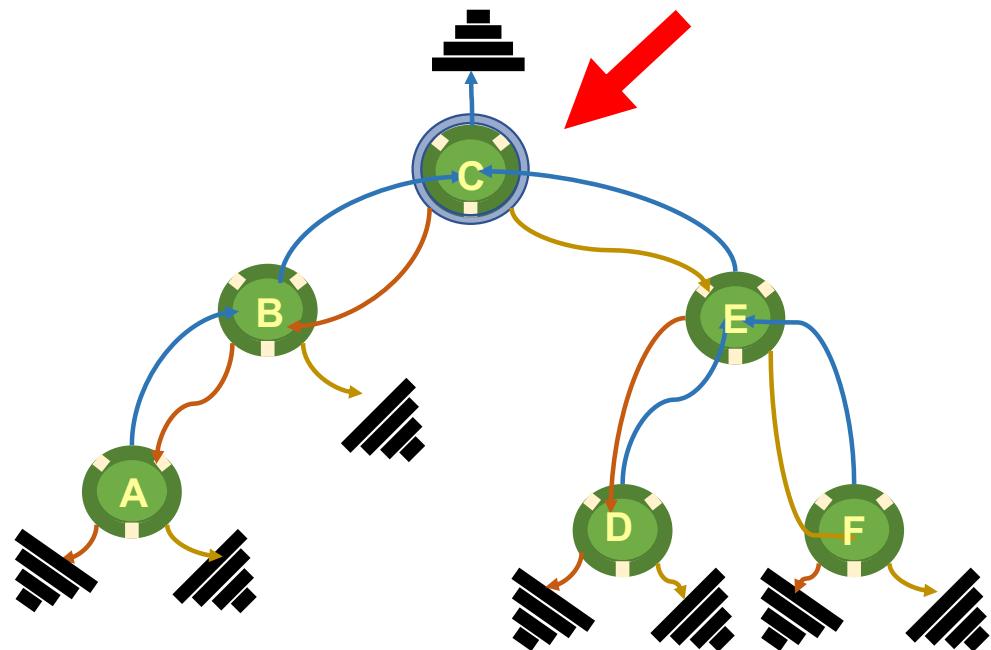
Sortida per pantalla

- Node A



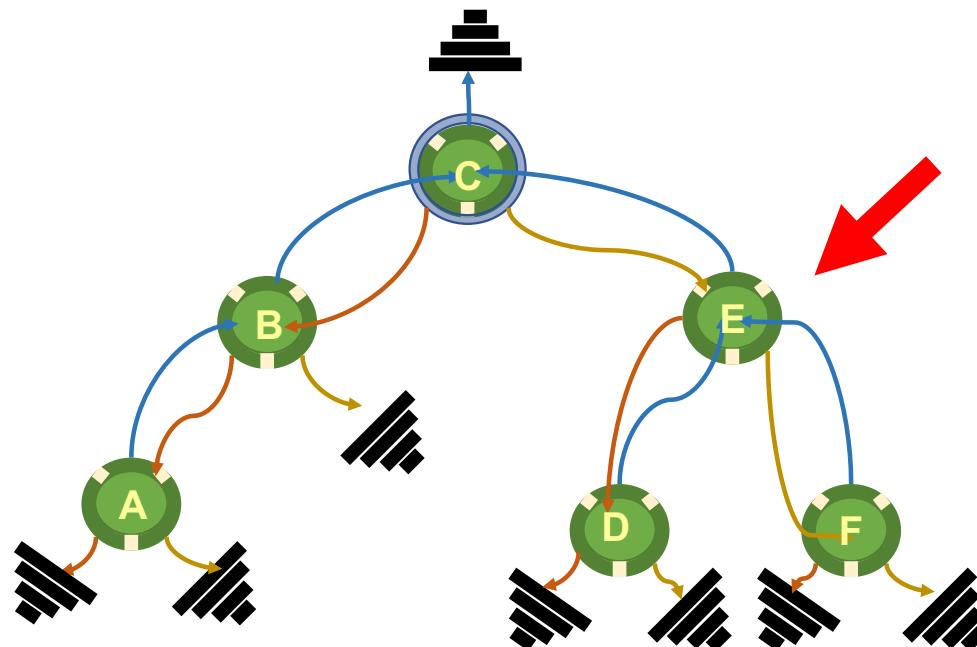
Sortida per pantalla

- Node A
- Node B



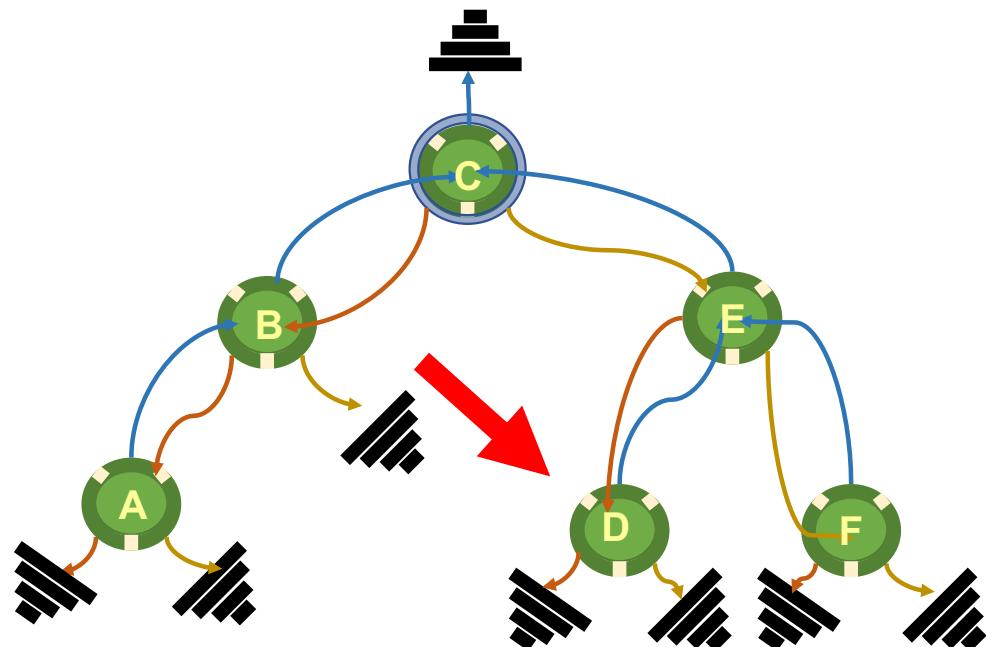
Sortida per pantalla

- Node A
- Node B
- Node C



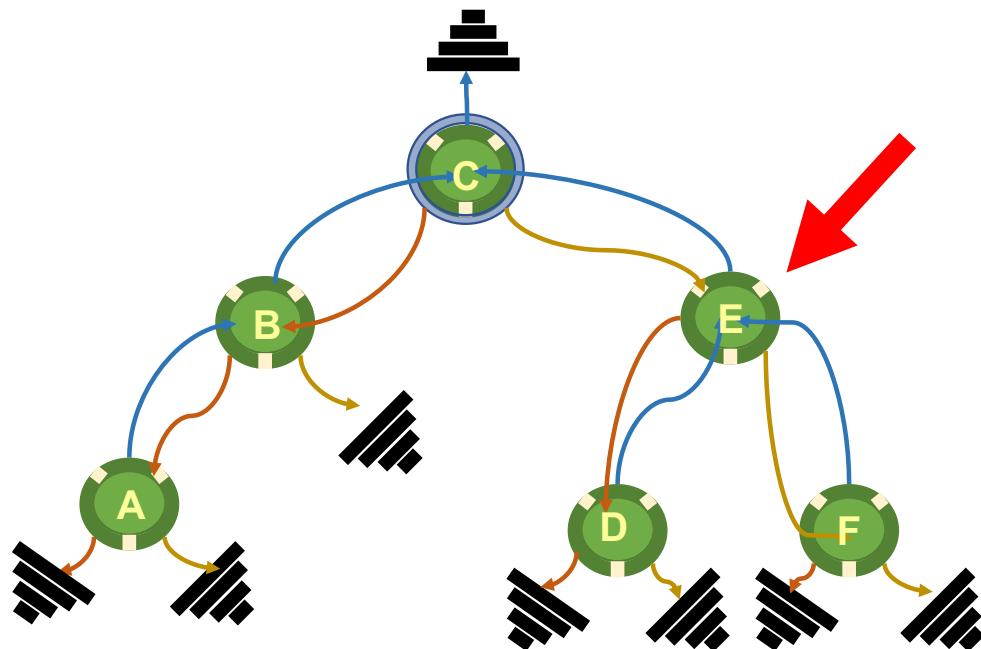
Sortida per pantalla

- Node A
- Node B
- Node C



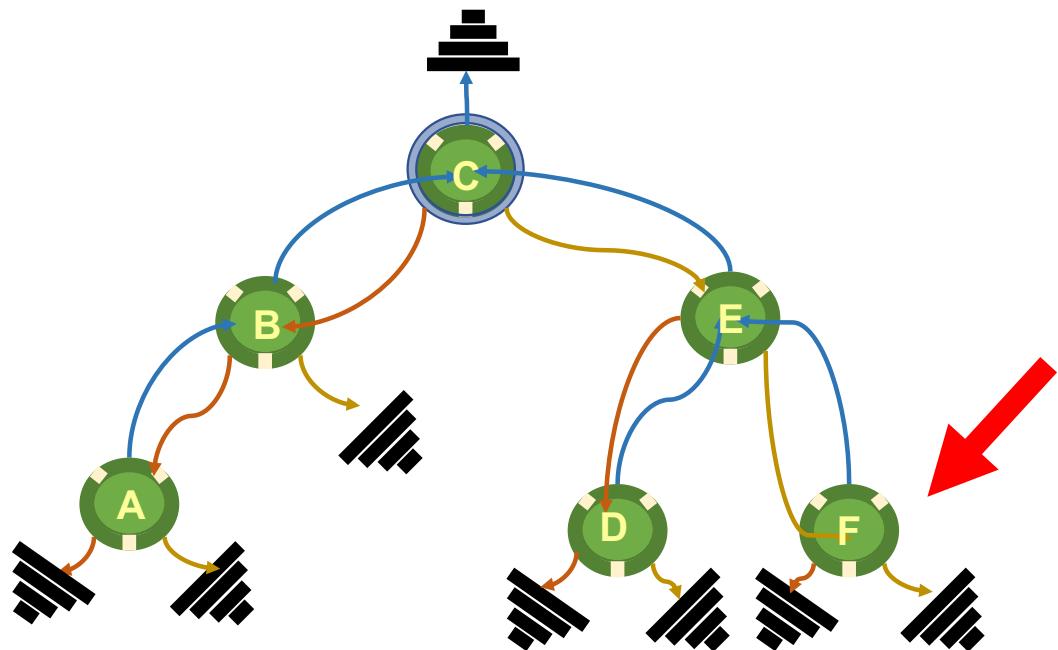
Sortida per pantalla

- Node A
- Node B
- Node C
- Node D



Sortida per pantalla

- Node A
- Node B
- Node C
- Node D
- Node E



Sortida per pantalla

- Node A
- Node B
- Node C
- Node D
- Node E
- Node F