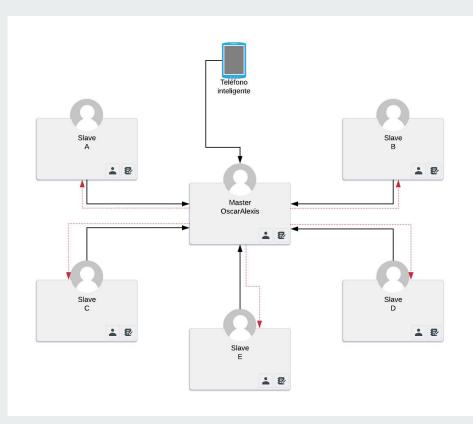
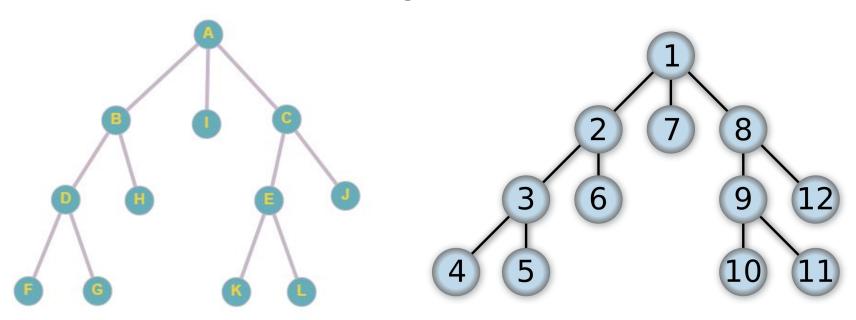
Casos de Prueba



1.- Pseudo-Tree (DFS algorithm)



Comandos de Creación y Linkeo

```
CREATE("A", "size: 42kb, files: 3")
CREATE("B", "size: 35kb, files: 2")
CREATE("C", "size: 70kb, files: 2")
CREATE("D", "size: 79kb, files: 2")
CREATE("E", "size: 63kb, files: 2")
CREATE("file.F", "size: 42kb")
CREATE("file.G", "size: 35kb")
CREATE("file.H", "size: 70kb")
CREATE("file.I", "size: 79kb")
CREATE("file.J", "size: 63kb")
CREATE("file.K", "size: 63kb")
CREATE("file.L", "size: 63kb")
LINK ("A")--("B")
LINK ("A")--("C")
LINK ("B")--("D")
LINK ("C")--("E")
LINK ("D")--("file.F")
LINK ("D")--("file.G")
LINK ("B")--("file.H")
LINK ("A")--("file.I")
LINK ("E")--("file.K")
LINK ("E")--("file.L")
LINK ("C")--("file.J")
```

Prueba de comandos: Delete - Unlink - Update - Select y Explore

Iniciamos probando que se hicieron bien los linkeos:

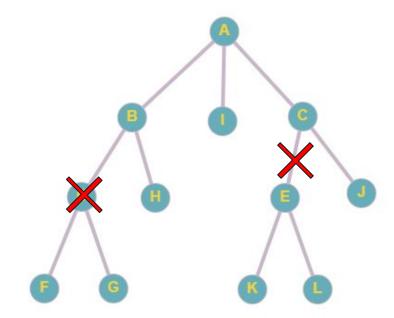
```
>EXPLORE ("A") 3
Lo que nos debería retornar:
-->file.I
-->(
---->file.J
--->E
---->file.K
---->file.L
-->B
--->file.H
--->D
---->file.G
---->file.F
```

Lo que nos retorna:

```
>EXPLORE("A"
    file.I]
     >file.J]
       >file.L]
       >file.K]
     >file.Hl
       >file.Gl
```

Probaremos ahora con borrar un nodo con más de 2 conexiones, y a borrar un link entre 2 nodos con 1 nodo de los 2 con por lo menos 2 conexiones:

>DELETE ("D")
>UNLINK ("C")--("E")



Lo que volviendo a hacer un EXPLORE como al inicio nos debería retornar :

```
>EXPLORE ("A") 2
```

```
A
-->B
--->file.H
-->file.I
-->C
```

---->file.J

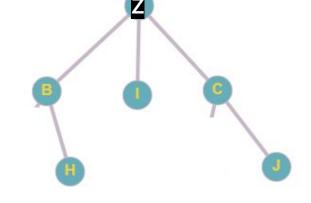
Y nos retorna:

```
>EXPLORE("A") 2
[>A]
[-->file.I]
[--->C]
[---->file.J]
[--->B]
[---->file.H]
```

Ahora solo probaremos los comandos UPDATE y SELECT:

```
>UPDATE ("A", "Z")
>SELECT ("Z") 2
```

Lo que nos debería retornar:



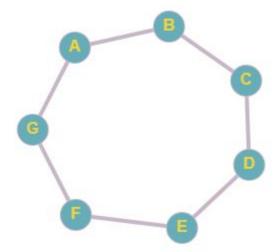
Lo que nos retorna:

```
>UPDATE("A", "Z")
[THE NODE WAS UPDATED!]
>SELECT("Z") 2
[>Z    (size: 42kb, files : 3)]
[-->C    (size: 70kb, files : 2)]
[--->file.J    (size: 63kb)]
[-->B    (size: 35kb, files : 2)]
[--->file.H    (size: 70kb)]
[-->file.I    (size: 79kb)]
```

Lista de comandos completos de estas pruebas

```
CREATE("A", "size: 42kb, files: 3")
CREATE("B", "size: 35kb, files: 2")
CREATE("C", "size: 70kb, files: 2")
CREATE("D", "size: 79kb, files : 2")
CREATE("E", "size: 63kb, files : 2")
CREATE("file.F", "size: 42kb")
CREATE("file.G", "size: 35kb")
CREATE("file.H", "size: 70kb")
CREATE("file.I", "size: 79kb")
CREATE("file.J", "size: 63kb")
CREATE("file.K", "size: 63kb")
CREATE("file.L", "size: 63kb")
LINK ("A")--("B")
LINK ("A")--("C")
LINK ("B")--("D")
LINK ("C")--("E")
LINK ("D")--("file.F")
LINK ("D")--("file.G")
LINK ("B")--("file.H")
LINK ("A")--("file.I")
LINK ("E")--("file.K")
LINK ("E")--("file.L")
LINK ("C")--("file.J")
EXPLORE ("A") 3
DELETE ("D")
UNLINK ("C")--("E")
EXPLORE ("A") 2
UPDATE ("A", "Z")
SELECT ("Z") 2
```

2.- Grafo Circular

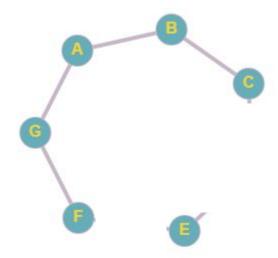


Lista de comandos para esta prueba:

```
o CREATE("A", "size: 42, files : 68")
o CREATE("B", "size: 35, files : 1")
o CREATE("C", "size: 70, files : 25")
o CREATE("D", "size: 79, files : 59")
o CREATE("E", "size: 63, files : 65")
o CREATE("F", "size: 6, files : 46")
o CREATE("G", "size: 82, files : 28")
○ LINK ("A")--("B")
○ LINK ("B")--("C")
○ LINK ("C")--("D")
○ LINK ("D")--("E")
○ LINK ("E")--("F")
○ LINK ("F")--("G")
o LINK ("G")--("A")
o EXPLORE ("A") 3
o DELETE ("D")
UNLINK ("E")--("F")
o EXPLORE ("A") 2
UPDATE ("A", "Z")
SELECT ("Z") 2
```

Resultado del primer EXPLORE

```
>EXPLORE ("A") 3
```



Resultado del segundo EXPLORE después de los comandos DELETE y UNLINK

```
>EXPLORE ("A") 2
[>A]
[--->G]
[---->F]
[--->B]
[---->C]
```

Resultado del SELECT luego del comando UPDATE

```
>SELECT ("Z") 2

[>Z (size: 42, files: 68)]

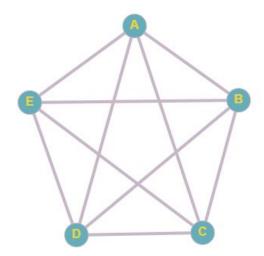
[--->B (size: 35, files: 1)]

[---->C (size: 70, files: 25)]

[--->G (size: 82, files: 28)]

[---->F (size: 6, files: 46)]
```

3.- Grafo Completo (K5)

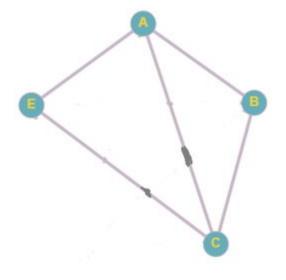


Lista de comandos para esta prueba:

```
CREATE("A", "size: 42, files: 68")
CREATE("B", "size: 35, files : 1")
CREATE("C", "size: 70, files : 25")
CREATE("D", "size: 79, files : 59")
CREATE("E", "size: 63, files: 65")
LINK ("A")--("B")
LINK ("A")--("C")
LINK ("A")--("D")
LINK ("A")--("E")
LINK ("B")--("C")
LINK ("B")--("D")
LINK ("B")--("E")
LINK ("C")--("D")
LINK ("C")--("E")
LINK ("D")--("E")
EXPLORE ("A") 3
DELETE ("D")
UNLINK ("E")--("B")
EXPLORE ("A") 3
UPDATE ("A", "Z")
SELECT ("Z") 3
```

Resultado del primer EXPLORE

```
>EXPLORE ("A") 3
-->E]
```



Resultado del EXPLORE después de los comandos DELETE y UNLINK

```
>EXPLORE ("A") 3
[>A]
[-->E]
[--->C]
[---->B]
[--->E]
[--->B]
[--->B]
[--->B]
[--->B]
[--->B]
[--->B]
```

Resultado del SELECT luego del comando

UPDATE

```
[THE NODE WAS UPDATED!]
>SELECT ("Z") 3
    (size: 42, files : 68)]
[-->B (size: 35, files: 1)]
[---->C (size: 70, files : 25)]
 ---->E (size: 63, files: 65)]
 [-->E (size: 63, files : 65)]
 [---->C (size: 70, files : 25)]
  ----->B (size: 35, files : 1)]
 -->C (size: 70, files : 25)]
 ---->E (size: 63, files : 65)]
 ---->B (size: 35, files : 1)]
```