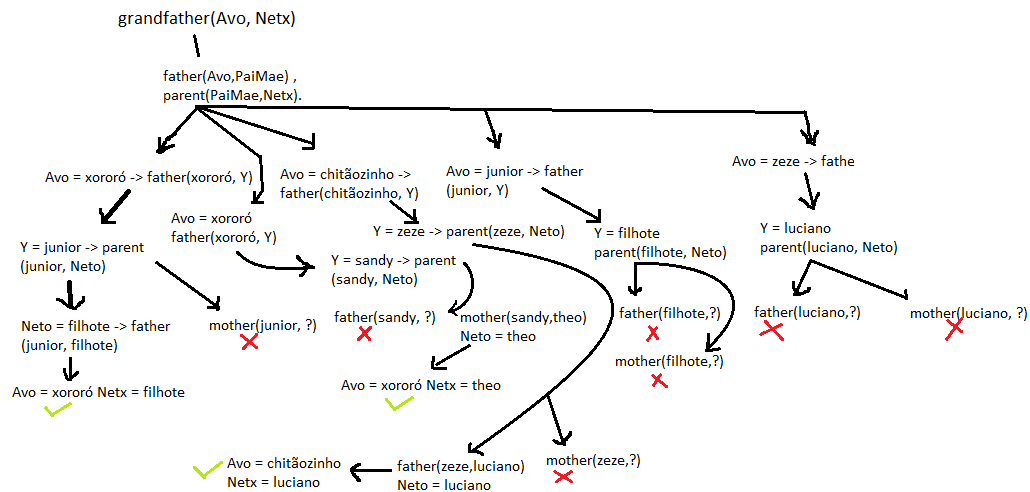


Consultando: grandfather(Avo,Netx).

```
[trace] ?- grandfather(Avo, Netx).
Call: (8) grandfather(_3692, _3694) ? creep
Call: (9) father(_3692, _3950) ? creep
Exit: (9) father(xororó, junior) ? creep
Call: (9) parent(junior, _3694) ? creep
Call: (10) father(junior, _3694) ? creep
Exit: (10) father(junior, filhote) ? creep
Exit: (9) parent(junior, filhote) ? creep
Exit: (8) grandfather(xororó, filhote) ? creep
Avo = xororó,
Netx = filhote ;
Redo: (9) parent(junior, _3694) ? creep
Call: (10) mother(junior, _3694) ? creep
Fail: (10) mother(junior, _3694) ? creep
Fail: (9) parent(junior, _3694) ? creep
Redo: (9) father(_3692, _3950) ? creep
Exit: (9) father(xororó, sandy) ? creep
Call: (9) parent(sandy, _3694) ? creep
Call: (10) father(sandy, _3694) ? creep
Fail: (10) father(sandy, _3694) ? creep
Redo: (9) parent(sandy, _3694) ? creep
Call: (10) mother(sandy, _3694) ? creep
Exit: (10) mother(sandy, theo) ? creep
Exit: (9) parent(sandy, theo) ? creep
Exit: (8) grandfather(xororó, theo) ? creep
Avo = xororó,
Netx = theo ;
Redo: (9) father(_3692, _3950) ? creep
Exit: (9) father(chitaozinho, zeze) ? creep
Call: (9) parent(zeze, _3694) ? creep
Call: (10) father(zeze, _3694) ? creep
Exit: (10) father(zeze, luciano) ? creep
Exit: (9) parent(zeze, luciano) ? creep
Exit: (8) grandfather(chitaozinho, luciano) ? creep
Avo = chitaozinho,
Netx = luciano ;
Redo: (9) parent(zeze, _3694) ? creep
Call: (10) mother(zeze, _3694) ? creep
Fail: (10) mother(zeze, _3694) ? creep
Fail: (9) parent(zeze, _3694) ? creep
Redo: (9) father(_3692, _3950) ? creep
Exit: (9) father(junior, filhote) ? creep
Call: (9) parent(filhote, _3694) ? creep
Call: (10) father(filhote, _3694) ? creep
Fail: (10) father(filhote, _3694) ? creep
Redo: (9) parent(filhote, _3694) ? creep
Call: (10) mother(filhote, _3694) ? creep
Fail: (10) mother(filhote, _3694) ? creep
Fail: (9) parent(filhote, _3694) ? creep
Redo: (9) father(_3692, _3950) ? creep
Exit: (9) father(zeze, luciano) ? creep
Call: (9) parent(luciano, _3694) ? creep
Call: (10) father(luciano, _3694) ? creep
Fail: (10) father(luciano, _3694) ? creep
Redo: (9) parent(luciano, _3694) ? creep
Call: (10) mother(luciano, _3694) ? creep
Fail: (10) mother(luciano, _3694) ? creep
Fail: (9) parent(luciano, _3694) ? creep
Fail: (8) grandfather(_3692, _3694) ? creep
false.
```

Árvore de Busca:



Cuja árvore de busca traduz para:

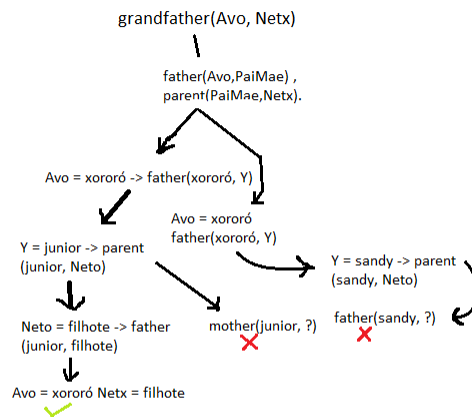
Consultando:
grandfather(xororó, Netx)

```

[trace] ?- grandfather(xororó, Netx).
Call: (8) grandfather(xororó, _980) ? creep
Call: (9) father(xororó, _1202) ? creep
Exit: (9) father(xororó, junior) ? creep
Call: (9) parent(junior, _980) ? creep
Call: (10) father(junior, _980) ? creep
Exit: (10) father(junior, filhote) ? creep
Exit: (9) parent(junior, filhote) ? creep
Exit: (8) grandfather(xororó, filhote) ? creep
Netx = filhote ;
Redo: (9) parent(junior, _980) ? creep
Call: (10) mother(junior, _980) ? creep
Fail: (10) mother(junior, _980) ? creep
Fail: (9) parent(junior, _980) ? creep
Redo: (9) father(xororó, _1202) ? creep
Exit: (9) father(xororó, sandy) ? creep
Call: (9) parent(sandy, _980) ? creep
Call: (10) father(sandy, _980) ? creep
Fail: (10) father(sandy, _980) ? creep
Redo: (9) parent(sandy, _980) ? creep
Call: (10) mother(sandy, _980) ? creep
Exit: (10) mother(sandy, theo) ? creep
Exit: (9) parent(sandy, theo) ? creep
Exit: (8) grandfather(xororó, theo) ? creep
Netx = theo.
  
```

Cuja árvore de busca traduz para:

Arvore de Busca:



```

[trace] ?- grandmother(Avo, Netx).
Call: (8) grandmother(_984, _986) ? creep
Call: (9) mother(_984, _1248) ? creep
Exit: (9) mother(noely, sandy) ? creep
Call: (9) parent(sandy, _986) ? creep
Call: (10) father(sandy, _986) ? creep
Fail: (10) father(sandy, _986) ? creep
Redo: (9) parent(sandy, _986) ? creep
Call: (10) mother(sandy, _986) ? creep
Exit: (10) mother(sandy, theo) ? creep
Exit: (9) parent(sandy, theo) ? creep
Exit: (8) grandmother(noely, theo) ? creep
Avo = noely.
Netx = theo ;
Redo: (9) mother(_984, _1248) ? creep
Exit: (9) mother(noely, junior) ? creep
Call: (9) parent(junior, _986) ? creep
Call: (10) father(junior, _986) ? creep
Exit: (10) father(junior, filhote) ? creep
Exit: (9) parent(junior, filhote) ? creep
Exit: (8) grandmother(noely, filhote) ? creep
Avo = noely.
Netx = filhote ;
Redo: (9) parent(junior, _986) ? creep
Call: (10) mother(junior, _986) ? creep
Fail: (10) mother(junior, _986) ? creep
Fail: (9) parent(junior, _986) ? creep
Redo: (9) mother(_984, _1248) ? creep
Exit: (9) mother(sandy, theo) ? creep
Call: (9) parent(theo, _986) ? creep
Call: (10) father(theo, _986) ? creep
Fail: (10) father(theo, _986) ? creep
Redo: (9) parent(theo, _986) ? creep
Call: (10) mother(theo, _986) ? creep
Fail: (10) mother(theo, _986) ? creep
Fail: (9) parent(theo, _986) ? creep
Redo: (9) mother(_984, _1248) ? creep
Exit: (9) mother(noely, sabrina) ? creep
Call: (9) parent(sabrina, _986) ? creep
Call: (10) father(sabrina, _986) ? creep
Fail: (10) father(sabrina, _986) ? creep
Redo: (9) parent(sabrina, _986) ? creep
Call: (10) mother(sabrina, _986) ? creep
Exit: (10) mother(sabrina, francesca) ? creep
Exit: (9) parent(sabrina, francesca) ? creep
Exit: (8) grandmother(noely, francesca) ? creep
Avo = noely.
Netx = francesca ;
Redo: (10) mother(sabrina, _986) ? creep
Exit: (10) mother(sabrina, paula) ? creep
Exit: (9) parent(sabrina, paula) ? creep
Exit: (8) grandmother(noely, paula) ? creep
Avo = noely.
Netx = paula ;
  
```

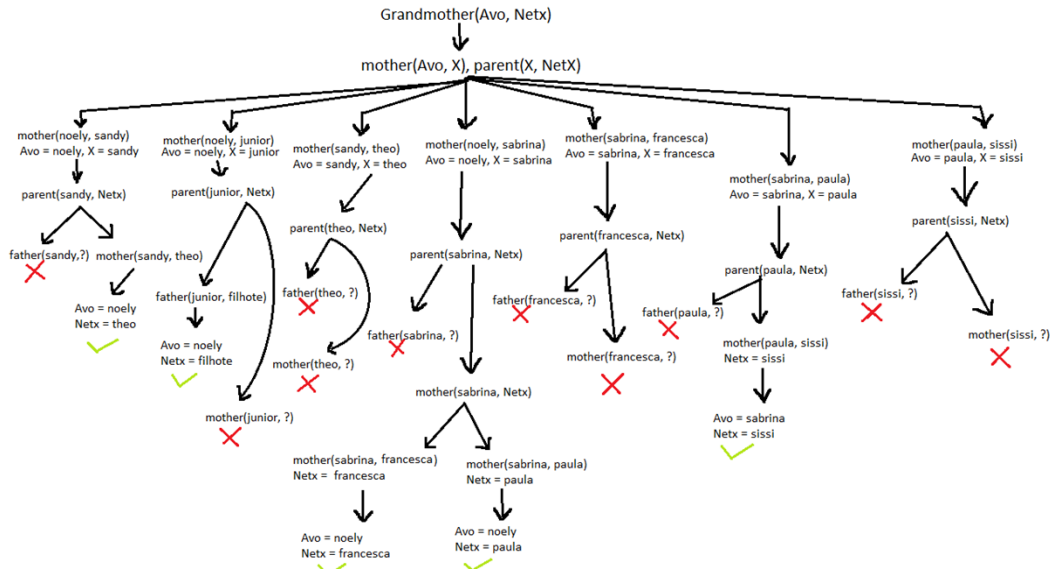
Consultando:
grandmother
(Avo, Netx)

```

Redo: (9) mother(_984, _1248) ? creep
Exit: (9) mother(sabrina, francesca) ? creep
Call: (9) parent(francesca, _986) ? creep
Call: (10) father(francesca, _986) ? creep
Fail: (10) father(francesca, _986) ? creep
Redo: (9) parent(francesca, _986) ? creep
Call: (10) mother(francesca, _986) ? creep
Fail: (10) mother(francesca, _986) ? creep
Fail: (9) parent(francesca, _986) ? creep
Redo: (9) mother(_984, _1248) ? creep
Exit: (9) mother(sabrina, paula) ? creep
Call: (9) parent(paula, _986) ? creep
Call: (10) father(paula, _986) ? creep
Fail: (10) father(paula, _986) ? creep
Redo: (9) parent(paula, _986) ? creep
Call: (10) mother(paula, _986) ? creep
Exit: (10) mother(paula, sissi) ? creep
Exit: (9) parent(paula, sissi) ? creep
Exit: (8) grandmother(sabrina, sissi) ? creep
Avo = sabrina,
Netx = sissi ;
Redo: (9) mother(_984, _1248) ? creep
Exit: (9) mother(paula, sissi) ? creep
Call: (9) parent(sissi, _986) ? creep
Call: (10) father(sissi, _986) ? creep
Fail: (10) father(sissi, _986) ? creep
Redo: (9) parent(sissi, _986) ? creep
Call: (10) mother(sissi, _986) ? creep
Fail: (10) mother(sissi, _986) ? creep
Fail: (9) parent(sissi, _986) ? creep
Fail: (8) grandmother(_984, _986) ? creep
false.

```

Cuja árvore de busca traduz para:



consultando: grandmother(noely, Netx)

```
[trace] ?- grandmother(noely, Netx).
Call: (8) grandmother(noely, _1046) ? creep
Call: (9) mother(noely, _1272) ? creep
Exit: (9) mother(noely, sandy) ? creep
Call: (9) parent(sandy, _1046) ? creep
Call: (10) father(sandy, _1046) ? creep
Fail: (10) father(sandy, _1046) ? creep
Redo: (9) parent(sandy, _1046) ? creep
Call: (10) mother(sandy, _1046) ? creep
Exit: (10) mother(sandy, theo) ? creep
Exit: (9) parent(sandy, theo) ? creep
Exit: (8) grandmother(noely, theo) ? creep
Netx = theo ;
Redo: (9) mother(noely, _1272) ? creep
Exit: (9) mother(noely, junior) ? creep
Call: (9) parent(junior, _1046) ? creep
Call: (10) father(junior, _1046) ? creep
Exit: (10) father(junior, filhote) ? creep
Exit: (9) parent(junior, filhote) ? creep
Exit: (8) grandmother(noely, filhote) ? creep
Netx = filhote ;
Redo: (9) parent(junior, _1046) ? creep
Call: (10) mother(junior, _1046) ? creep
Fail: (10) mother(junior, _1046) ? creep
Fail: (9) parent(junior, _1046) ? creep
Redo: (9) mother(noely, _1272) ? creep
Exit: (9) mother(noely, sabrina) ? creep
Call: (9) parent(sabrina, _1046) ? creep
Call: (10) father(sabrina, _1046) ? creep
Fail: (10) father(sabrina, _1046) ? creep
Redo: (9) parent(sabrina, _1046) ? creep
Call: (10) mother(sabrina, _1046) ? creep
Exit: (10) mother(sabrina, francesca) ? creep
Exit: (9) parent(sabrina, francesca) ? creep
Exit: (8) grandmother(noely, francesca) ? creep
Netx = francesca ;
Redo: (10) mother(sabrina, _1046) ? creep
Exit: (10) mother(sabrina, paula) ? creep
Exit: (9) parent(sabrina, paula) ? creep
Exit: (8) grandmother(noely, paula) ? creep
Netx = paula.
```

cuja árvore de busca traduz para:

