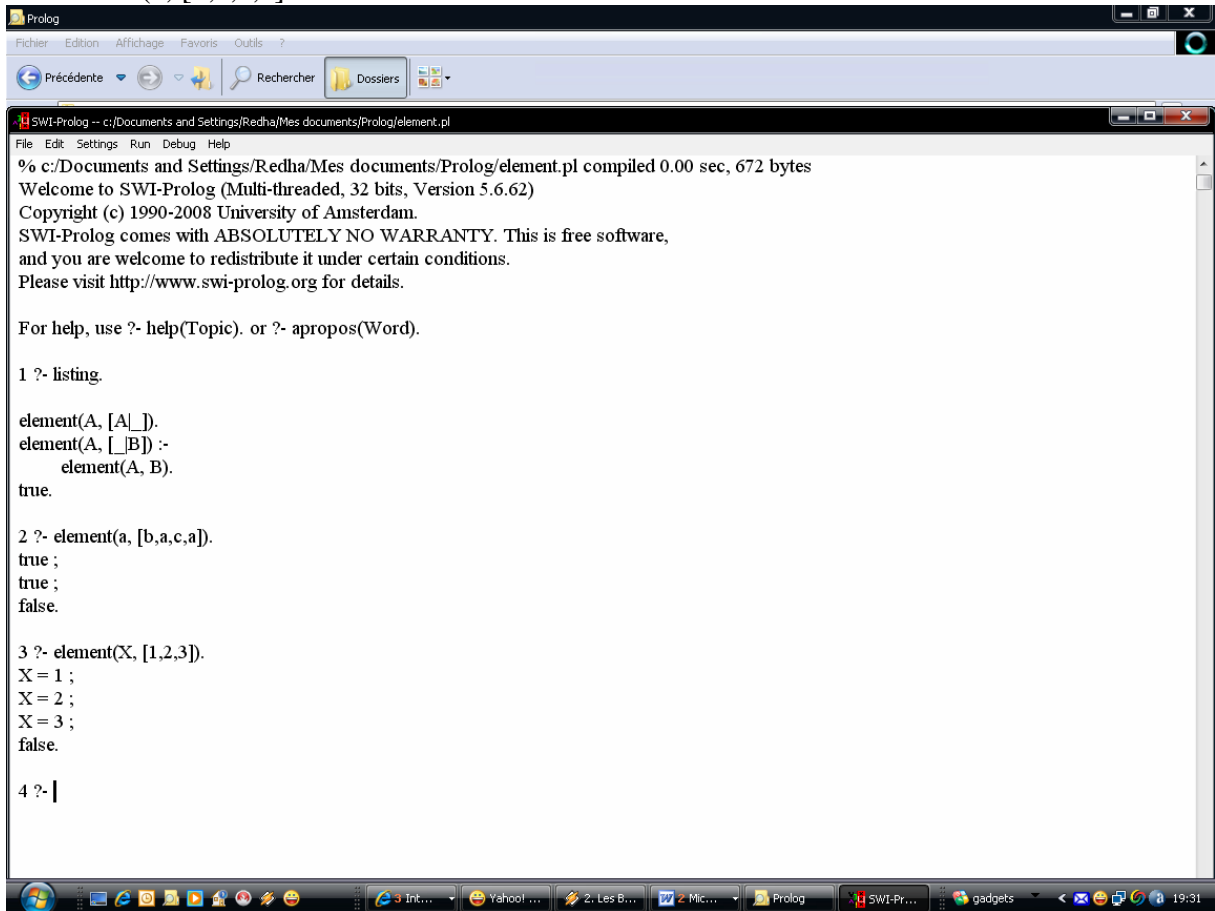


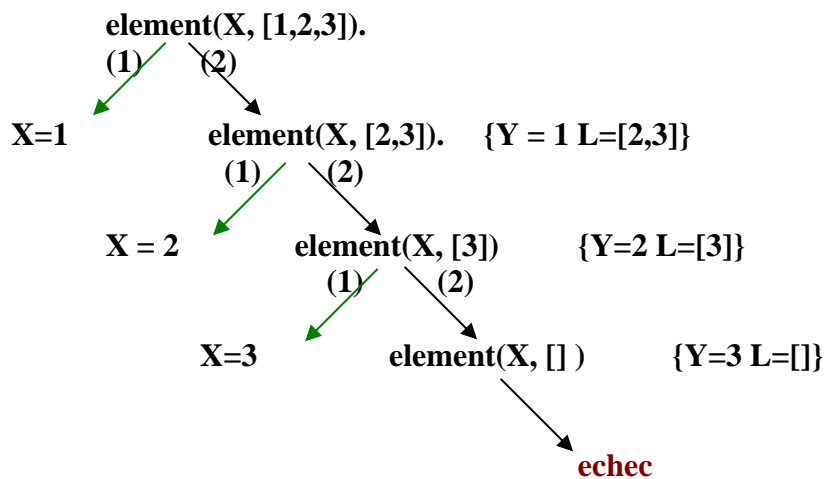


Soit le but :

?- element(a, [b,a,c,a]).



L'arbre SLD du but ?- element(X, [1,2,3]).



## Exo2. : La factorielle !

```

SWI-Prolog -- c:/Documents and Settings/Redha/Mes documents/Prolog/fact.pl
File Edit Settings Run Debug Help
% c:/Documents and Settings/Redha/Mes documents/Prolog/fact.pl compiled 0.02 sec, 712 bytes
Welcome to SWI-Prolog (Multi-threaded, 32 bits, Version 5.6.62)
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and you are welcome to redistribute it under certain conditions.
Please visit http://www.swi-prolog.org for details.

For help, use ?- help(Topic). or ?- apropos(Word).

1 ?- listing.

fact(0, 1).
fact(A, C) :-
    B is A-1,
    fact(B, D),
    C is D*A.
true.

2 ?- fact(3,X).
X = 6 ;
ERROR: Out of local stack
3 ?-
    
```

```

SWI-Prolog -- c:/Documents and Settings/Redha/Mes documents/Prolog/fact.pl
File Edit Settings Run Debug Help
% c:/Documents and Settings/Redha/Mes documents/Prolog/fact.pl compiled 0.00 sec, 720 bytes
Welcome to SWI-Prolog (Multi-threaded, 32 bits, Version 5.6.62)
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For help, use ?- help(Topic). or ?- apropos(Word).

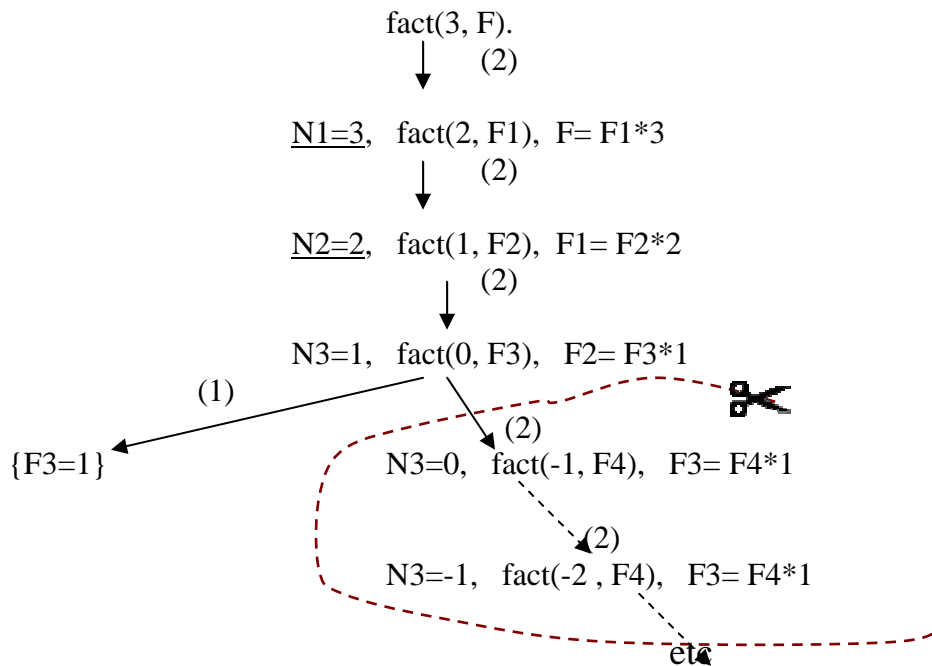
1 ?- listing.

fact(0, 1) :- !.
fact(A, C) :-
    B is A-1,
    fact(B, D),
    C is D*A.
true.

2 ?- fact(5, X).
X = 120.

3 ?-
    
```

**Arbre SLD du but ?-fact(3, F).**



```

SWI-Prolog -- c:/Documents and Settings/Redha/Mes documents/Prolog/fact.pl
File Edit Settings Run Debug Help
% c:/Documents and Settings/Redha/Mes documents/Prolog/fact.pl compiled 0.00 sec, 752 bytes
Welcome to SWI-Prolog (Multi-threaded, 32 bits, Version 5.6.62)
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For help, use ?- help(Topic). or ?- apropos(Word).

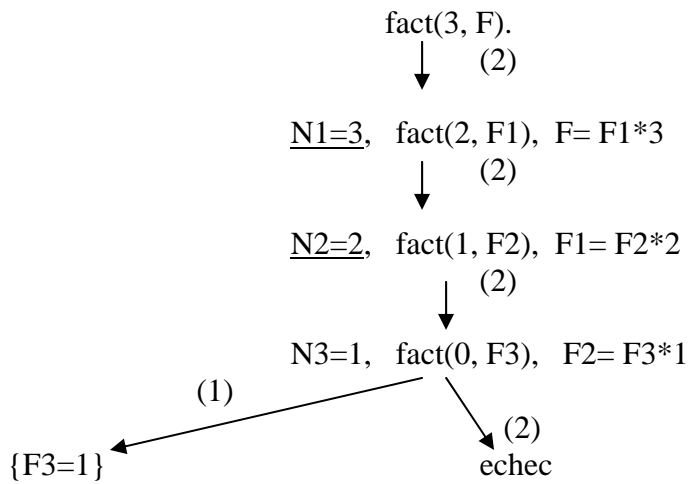
1 ?- listing.

fact(0, 1).
fact(A, C) :-
    A>0,
    B is A-1,
    fact(B, D),
    C is D*A.
true.

2 ?- fact(3,X).
X = 6 ;
false.

3 ?- |
    
```

### Arbre SLD



« L'erreur est humaine, le système d'exploitation ne pardonne pas ! »