

Beispiel Clocksin Mellish S.38: Ablauf der Abarbeitung

```
female(mary)
```

```
female(mary).
```

```
parent(mary,M,F)
```

```
parent(C,M,F):-  
    mother(C,M),  
    father(C,F).
```

```
mother(john,ann).  
mother(mary,ann).
```

```
parent(john,M,F)
```

```
father(mary,fred).  
father(john,fred).
```

```
?- female(mary),  
    parent(mary,M,F),  
    parent(john,M,F).
```

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female(mary)

Call: female(mary)

female(mary).

parent(mary,M,F)

parent(C,M,F):-
 mother(C,M),
 father(C,F).

mother(john,ann).
mother(mary,ann).

parent(john,M,F)

father(mary,fred).
father(john,fred).

?- female(mary),
 parent(mary,M,F),
 parent(john,M,F).

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female(mary)

Call: female(mary)
Exit: female(mary)

female(mary).

parent(mary,M,F)

parent(C,M,F):-
 mother(C,M),
 father(C,F).

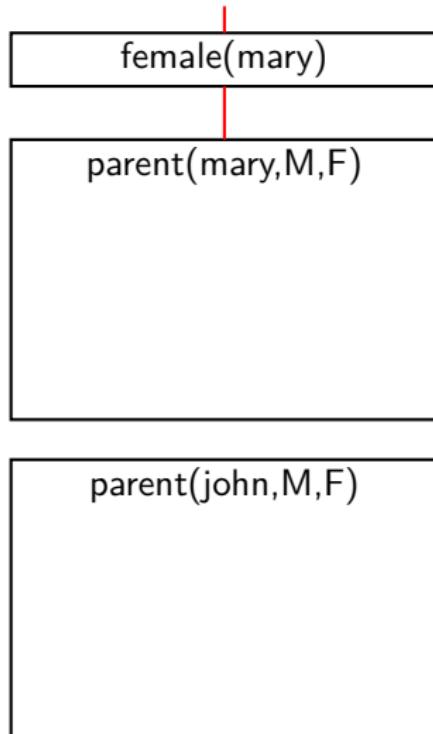
mother(john,ann).
mother(mary,ann).

parent(john,M,F)

father(mary,fred).
father(john,fred).

?- female(mary),
 parent(mary,M,F),
 parent(john,M,F).

Beispiel Clocksin Mellish S.38: Ablauf der Abarbeitung



Call: female(mary)
Exit: female(mary)
Call: parent(mary,M,F)

female(mary).

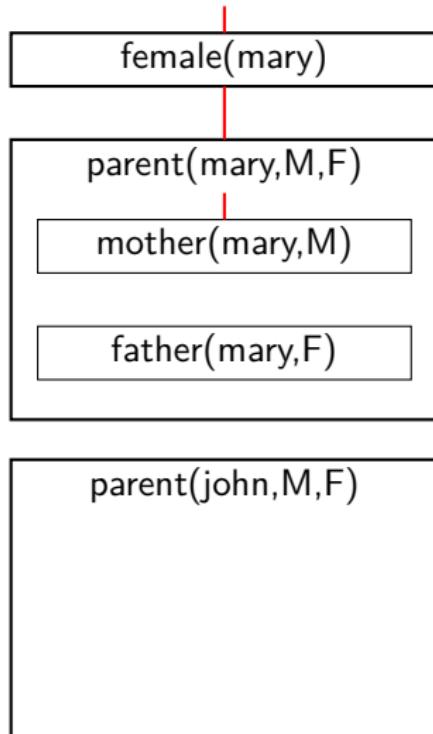
parent(C,M,F):-
 mother(C,M),
 father(C,F).

mother(john,ann).
mother(mary,ann).

father(mary,fred).
father(john,fred).

?- female(mary),
 parent(mary,M,F),
 parent(john,M,F).

Beispiel Clocksin Mellish S.38: Ablauf der Abarbeitung



Call: female(mary)
Exit: female(mary)
Call: parent(mary,M,F)
Call: mother(mary,M)

female(mary).

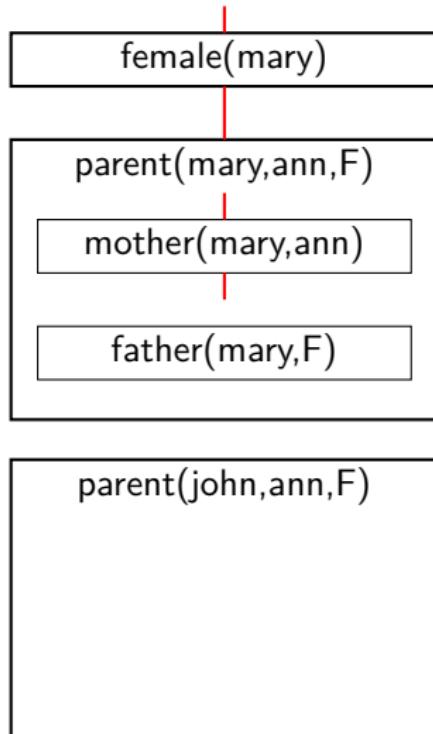
parent(C,M,F):-
 mother(C,M),
 father(C,F).

mother(john,ann).
mother(mary,ann).

father(mary,fred).
father(john,fred).

?- female(mary),
 parent(mary,M,F),
 parent(john,M,F).

Beispiel Clocksin Mellish S.38: Ablauf der Abarbeitung



Call: female(mary)
Exit: female(mary)
Call: parent(mary,M,F)
Call: mother(mary,M)
Exit: mother(mary,ann)

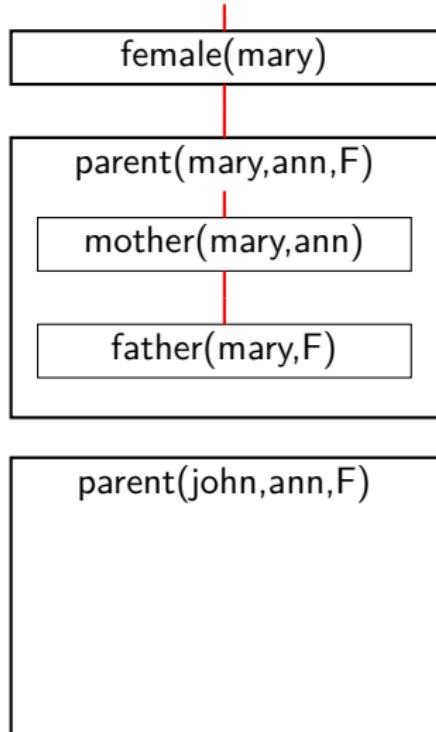
female(mary).
parent(C,M,F):-
 mother(C,M),
 father(C,F).

mother(john,ann).
mother(mary,ann).

father(mary,fred).
father(john,fred).

?- female(mary),
 parent(mary,M,F),
 parent(john,M,F).

Beispiel Clocksin Mellish S.38: Ablauf der Abarbeitung



Call: female(mary)
Exit: female(mary)
Call: parent(mary,M,F)
Call: mother(mary,M)
Exit: mother(mary,ann)
Call: father(mary,F)

female(mary).

parent(C,M,F):-
 mother(C,M),
 father(C,F).

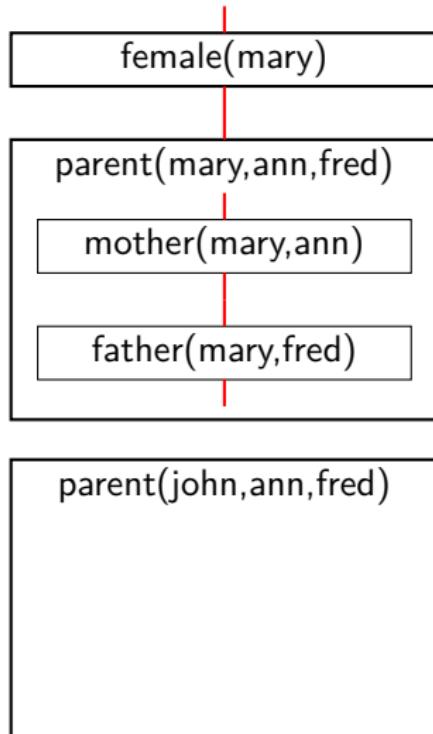
mother(john,ann).
mother(mary,ann).

father(mary,fred).
father(john,fred).

M = ann

?- female(mary),
parent(mary,M,F),
parent(john,M,F).

Beispiel Clocksin Mellish S.38: Ablauf der Abarbeitung



Call: `female(mary)`

Exit: `female(mary)`

`female(mary).`

Call: `parent(mary,M,F)`

Call: `mother(mary,M)`

`parent(C,M,F):-`

`mother(C,M),`

`father(C,F).`

Exit: `mother(mary,ann)`

Call: `father(mary,F)`

Exit: `father(mary,fred)`

`mother(john,ann).`

`mother(mary,ann).`

`parent(john,ann,fred)`

`M = ann`

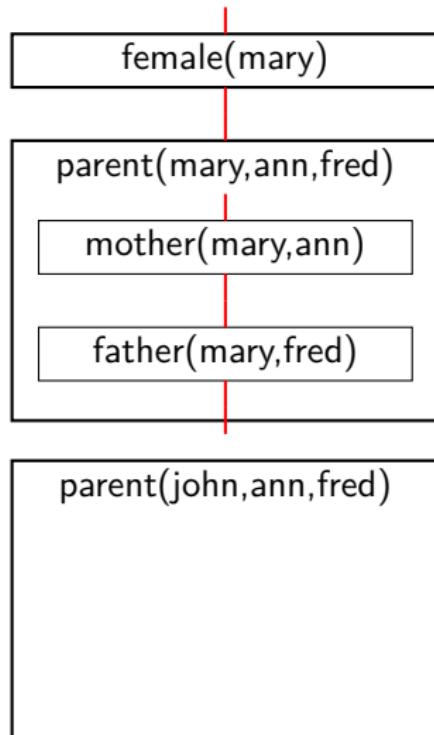
`F = fred`

`father(mary,fred).`

`father(john,fred).`

?- `female(mary),`
`parent(mary,M,F),`
`parent(john,M,F).`

Beispiel Clocksin Mellish S.38: Ablauf der Abarbeitung



Call: female(mary)

Exit: female(mary)

female(mary).

Call: parent(mary,M,F)

Call: mother(mary,M)

```
parent(C,M,F):-  
    mother(C,M),  
    father(C,F).
```

Exit: mother(mary,ann)

Call: father(mary,F)

Exit: father(mary,fred)

mother(john,ann).
mother(mary,ann).

Exit: parent(mary,ann,fred)

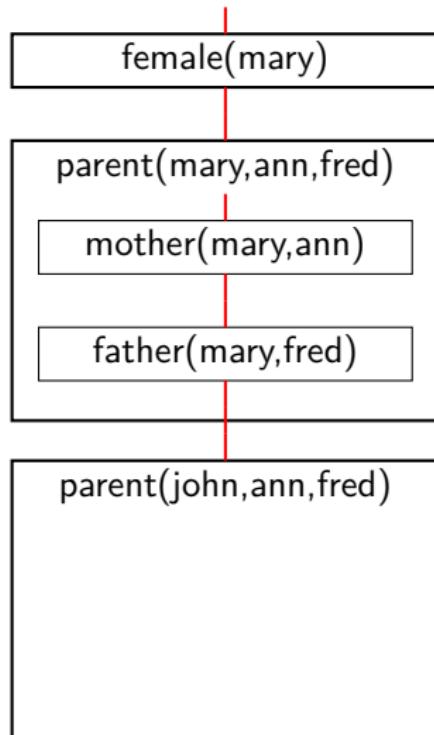
father(mary,fred).
father(john,fred).

$$M = \text{ann}$$

F = fred

```
?- female(mary),  
    parent(mary,M,F),  
    parent(john,M,F).
```

Beispiel Clocksin Mellish S.38: Ablauf der Abarbeitung



Call: female(mary)

Exit: female(mary)

female(mary).

Call: parent(mary,M,F)

Call: mother(mary,M)

```
parent(C,M,F):-  
    mother(C,M),  
    father(C,F).
```

Exit: mother(mary,ann)

Call: father(mary,F)

Exit: father(mary,fred)

mother(john,ann).
mother(mary,ann).

Exit: parent(mary,ann,fred)

Call: parent(john,ann,fred)

parent(john,ann,fred)

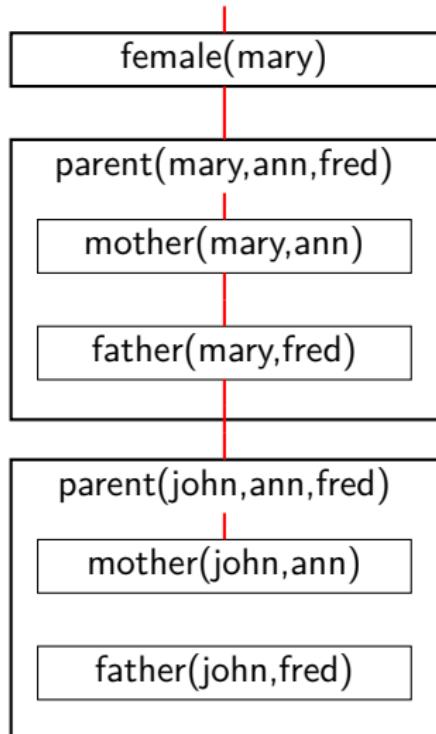
father(mary,fred).
father(john,fred).

$M = \text{ann}$

$F \equiv \text{fred}$

```
?- female(mary),  
    parent(mary,M,F),  
    parent(john,M,F).
```

Beispiel Clocksin Mellish S.38: Ablauf der Abarbeitung



Call: female(mary)
Exit: female(mary) female(mary).
Call: parent(mary,M,F)
Call: mother(mary,M)
Exit: mother(mary,ann)
Call: father(mary,F)
Exit: father(mary,fred)
Exit: parent(mary,ann,fred)
Call: parent(john,ann,fred)
Call: mother(john,ann)

parent(C,M,F):-
 mother(C,M),
 father(C,F).

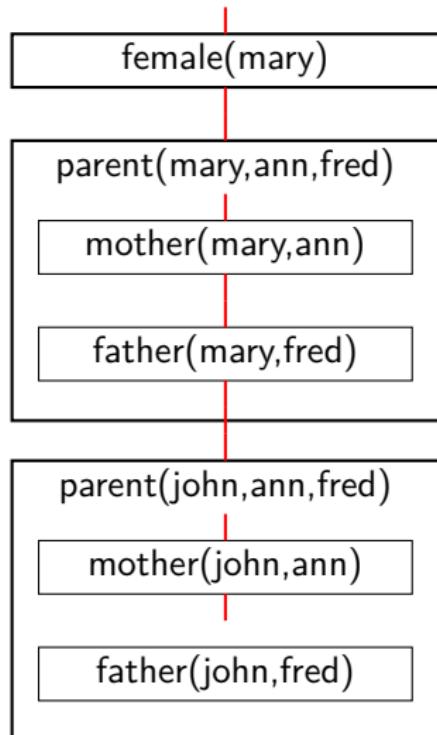
mother(john,ann).
mother(mary,ann).

father(mary,fred).
father(john,fred).

?- female(mary),
 parent(mary,M,F),
 parent(john,M,F).

M = ann
F = fred

Beispiel Clocksin Mellish S.38: Ablauf der Abarbeitung



Call: female(mary)

Exit: female(mary)

female(mary).

Call: parent(mary,M,F)

Call: mother(mary,M)

```
parent(C,M,F):-  
    mother(C,M),  
    father(C,F).
```

Exit: mother(mary,ann)

Call: father(mary,F)

Exit: father(mary,fred)

Exit: parent(mary,ann,fred)

mother(john,ann).
mother(mary,ann).

Call: parent(john,ann,fred)

Call: mother(john,ann)

father(mary,fred).
father(john,fred).

Exit: mother(john,ann)

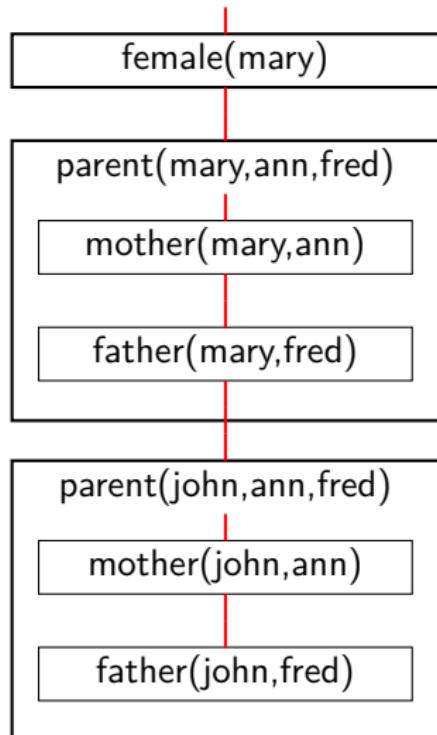
parent(john,ann,fred)

```
?- female(mary),  
    parent(mary,M,F),  
    parent(john,M,F).
```

$$M = \text{ann}$$

F = fred

Beispiel Clocksin Mellish S.38: Ablauf der Abarbeitung



Call: female(mary)

Exit: female(mary)

female(mary).

Call: parent(mary,M,F)

Call: mother(mary,M)

```
parent(C,M,F):-  
    mother(C,M),  
    father(C,F).
```

Exit: mother(mary,ann)

Call: father(mary,F)

Exit: father(mary,fred)

Exit: parent(mary,ann,fred)

Call: parent(john,ann,fred)

Call: mother(john,ann)

Exit: mother(john,ann)

Call: father(john,fred)

mother(john,ann).
mother(mary,ann).

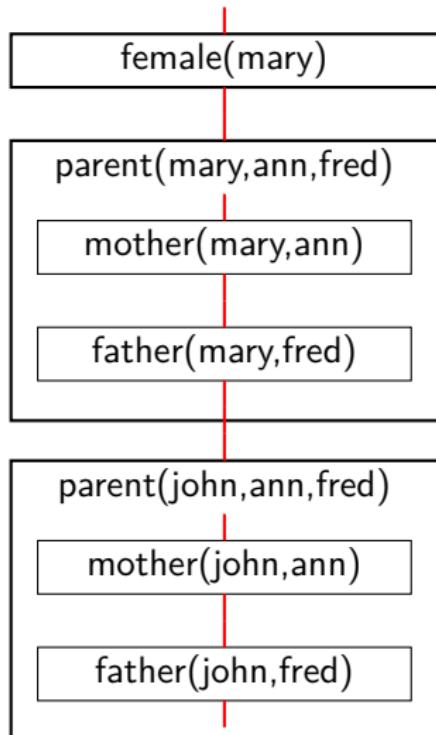
father(mary,fred).
father(john,fred).

```
?- female(mary),  
    parent(mary,M,F),  
    parent(john,M,F).
```

$$M = \text{ann}$$

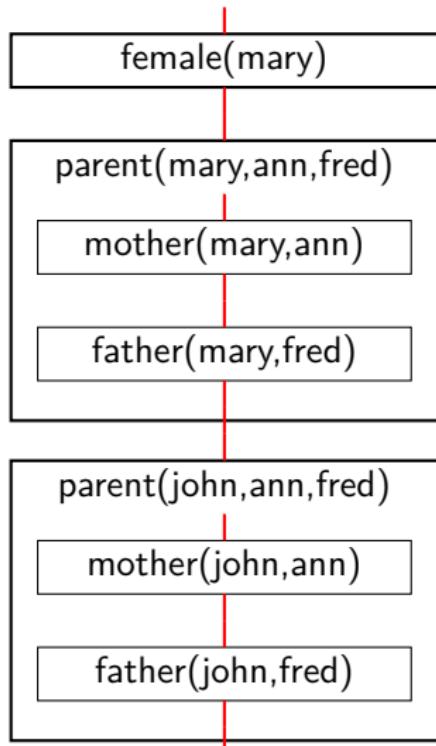
F = fred

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Call: female(mary)
Exit: female(mary) female(mary).
Call: parent(mary,M,F)
Call: mother(mary,M)
Exit: mother(mary,ann) parent(C,M,F):-
Call: father(mary,F)
Exit: father(mary,fred)
Exit: parent(mary,ann,fred)
Call: parent(john,ann,fred)
Call: mother(john,ann)
Exit: mother(john,ann) mother(john,ann).
Call: father(john,fred)
Exit: father(john,fred) mother(mary,ann).
M = ann
F = fred
father(mary,fred).
father(john,fred).
?- female(mary),
parent(mary,M,F),
parent(john,M,F).

Beispiel Clocksin Mellish S.38: Ablauf der Abarbeitung



Call: female(mary)
Exit: female(mary) female(mary).
Call: parent(mary,M,F)
Call: mother(mary,M)
Exit: mother(mary,ann) parent(C,M,F):-
Call: father(mary,F)
Exit: father(mary,fred)
Exit: parent(mary,ann,fred)
Call: parent(john,ann,fred)
Call: mother(john,ann)
Exit: mother(john,ann) mother(john,ann).
Call: father(john,fred)
Exit: father(john,fred)
Exit: parent(john,ann,fred)
M = ann
F = fred mother(mary,ann).
?- female(mary),
parent(mary,M,F),
parent(john,M,F).