

Example of Not in Prolog

```
%%%      HERE'S THE DATABASE
```

```
%      FACTS
```

```
male(george).
```

```
male(ralph).
```

```
male(arthur).
```

```
father(bob,sue).
```

```
%      RULES
```

```
parent(X,Y) :- father(X,Y).
```

```
mother(X,Y) :- not(male(X)), parent(X,Y).
```

```
%%%      END OF DATABASE
```

Example Continued

% bp

```
BinProlog 5.75 Copyright (C) Paul Tarau 1992-1997
by FTP from:  clement.info.umoncton.ca
E-MAIL to   : binprolog@info.umoncton.ca
(C-ified standalone)
(with heap GC enabled)
Finished loading system C-code (40332 instructions).
Finished loading user C-code (4 instructions).
?- [not].
compiling(to(mem),not.pl,...)
bytes_used(code(440),strings(54),symbols(72),
htable(408),total(974))
compile_time(20)
?- not(male(george)).
no
?- not(male(bob)).
yes
?- mother(bob,sue).
yes
?- mother(bob,Y).
Y=sue

yes
?- mother(X,sue).
>>> should be ground: not(male(_x2247))
?- ^D
Prolog execution halted(0). CPU time = 0.120s
```