

initial goal

Trace it by hand

grandfather(x, y)

10 / X = GP  
Y = GC

male(GP), parent(GP, A), parent(A, GC)

1 / GP = tom

parent(tom, A), parent(A, GC)

A = william

parent(william, GC)

X

2 / GP = peter

parent(peter, A), parent(A, GC)

X

3

parent(doug, A), parent(A, GC)

6 / A = susan

parent(susan, GC)

X

A = david

parent(david, GC)

X

9 / A = tom

parent(tom, GC)

7 / GC = william

YES  
24

with  
X = doug  
Y = william