

$? - \underbrace{\text{sister}(X, \text{mary})}_{L}, \underbrace{\text{father}(Y, X)}_Q.$

program contains

\vdots

$\underbrace{\text{sister}(\text{juliet}, Z)}_{L_0} :- \underbrace{\text{mother}(Z, \text{paul})}_{L_1}.$ $u=1$

Are L and L_0 unifiable?

Yes, the mgu is: $U = \{X/\text{juliet}, Z/\text{mary}\}$

Hence, a resolution step gives, as new query:

$? - \text{mother}(\text{mary}, \text{paul}), \text{father}(Y, \text{juliet}).$