

### Algorithm Selected: A\*

PREVIOUS PATH2:

a --> c --> e (Goal)

Path to last Goal Node: a --> c --> e (Goal) Cost: 3.0

Nodes expanded: 5

### DOMAIN-SPLITTING HISTORY:

Mom in {car}

Dad in {car}

Daughter in {car}

Cannot split variable Mom

Daughter in {bike}

Solution found: Mom = car, Dad = car, Daughter = bike, Son = bike

Dad in {bike}

Daughter in {car}

Solution found: Mom = car, Dad = bike, Daughter = car, Son = car

Daughter in {bike}

Cannot split variable Mom

Mom in {bike}

Dad in {car}

Daughter in {car}

Solution found: Mom = bike, Dad = car, Daughter = car, Son = car

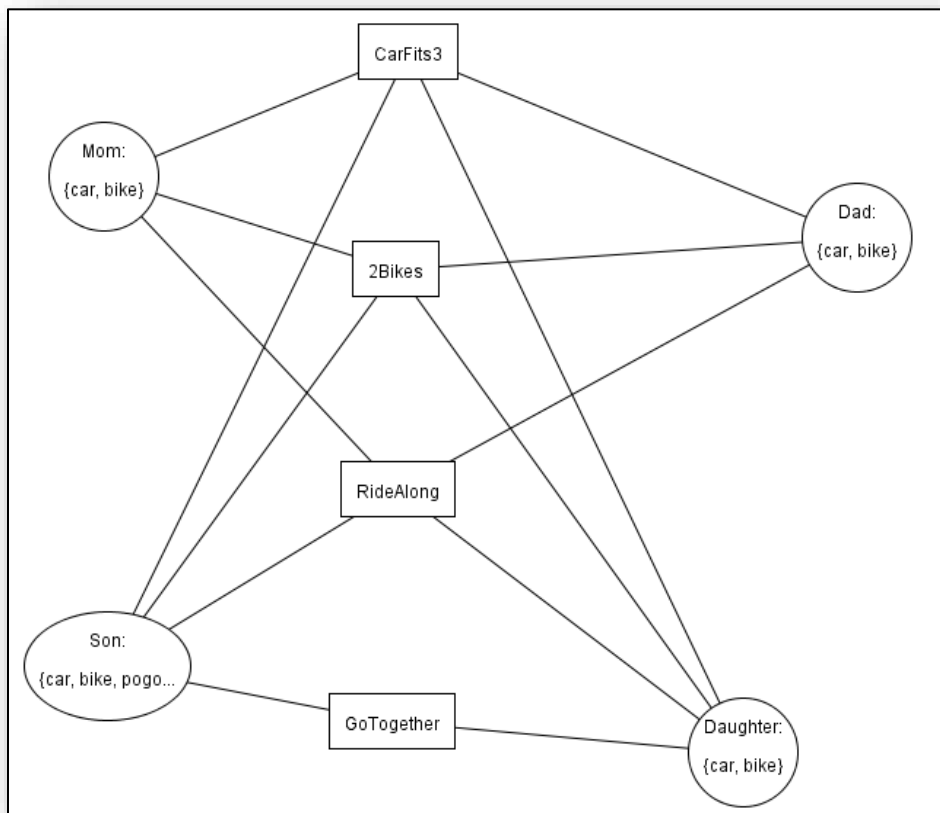
Daughter in {bike}

Cannot split variable Mom

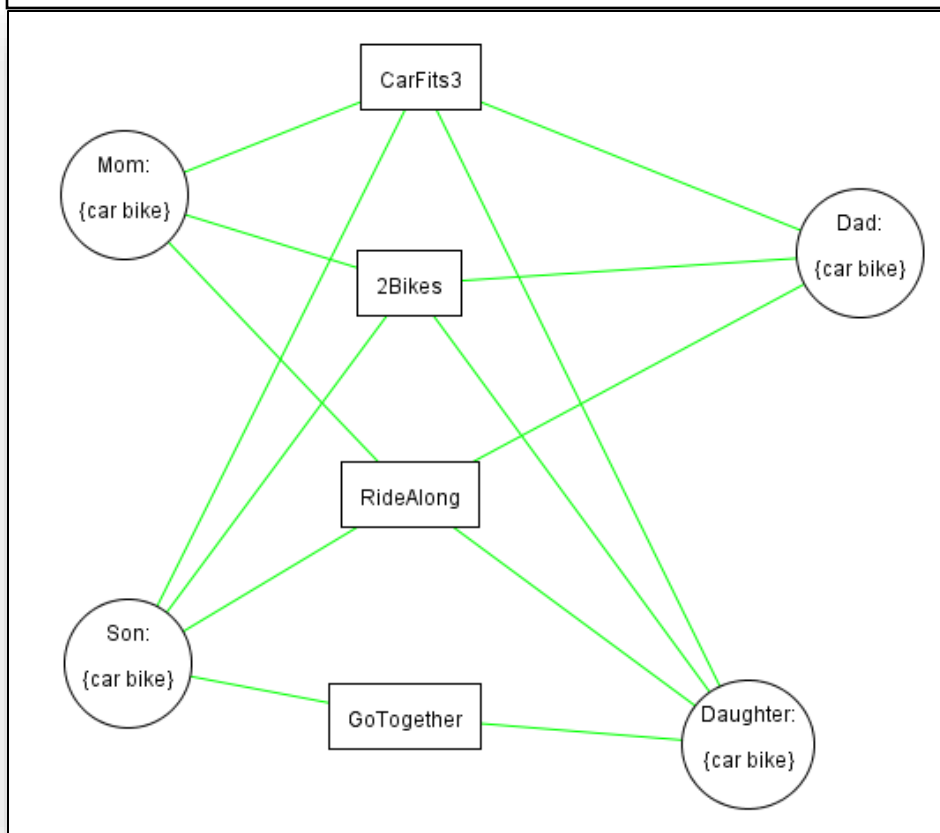
Dad in {bike}

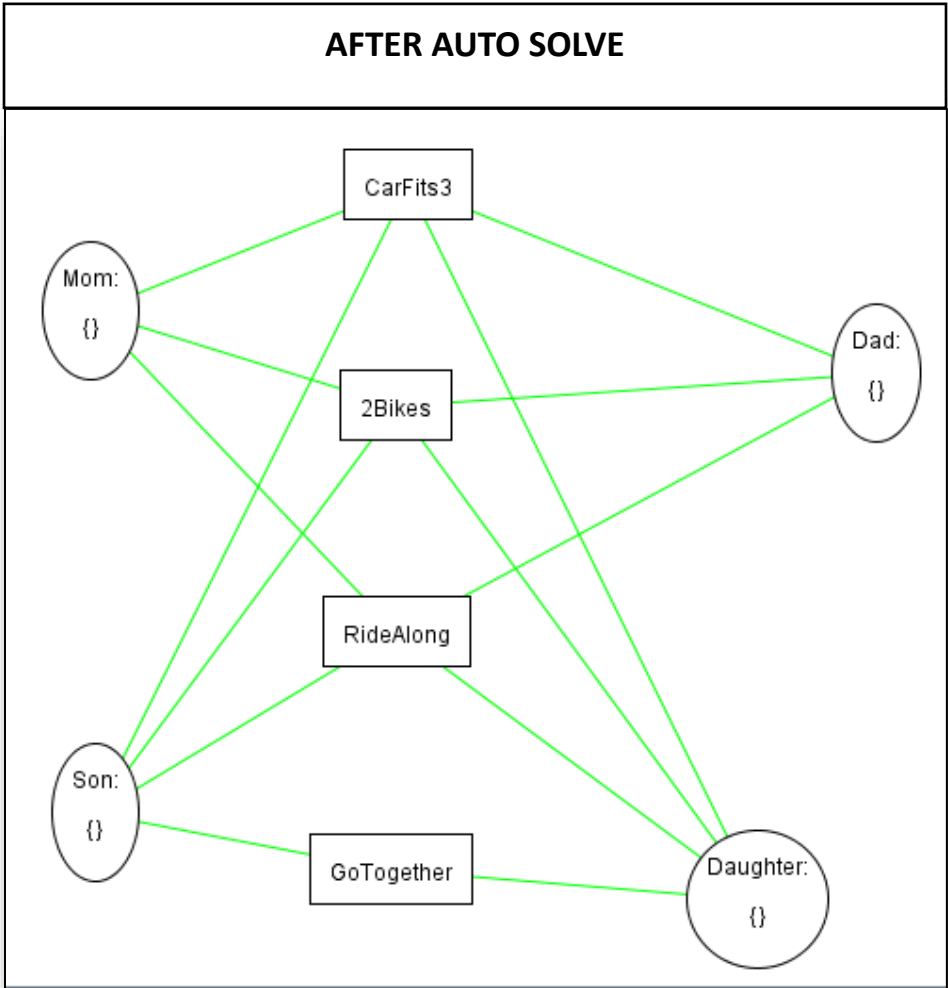
Cannot split variable Mom


Cannot split variable Mom



### AFTER ENFORCING ARC-CONSISTENCY





 **Constraint Properties** ✕

Constraint Type: **Custom** ▼

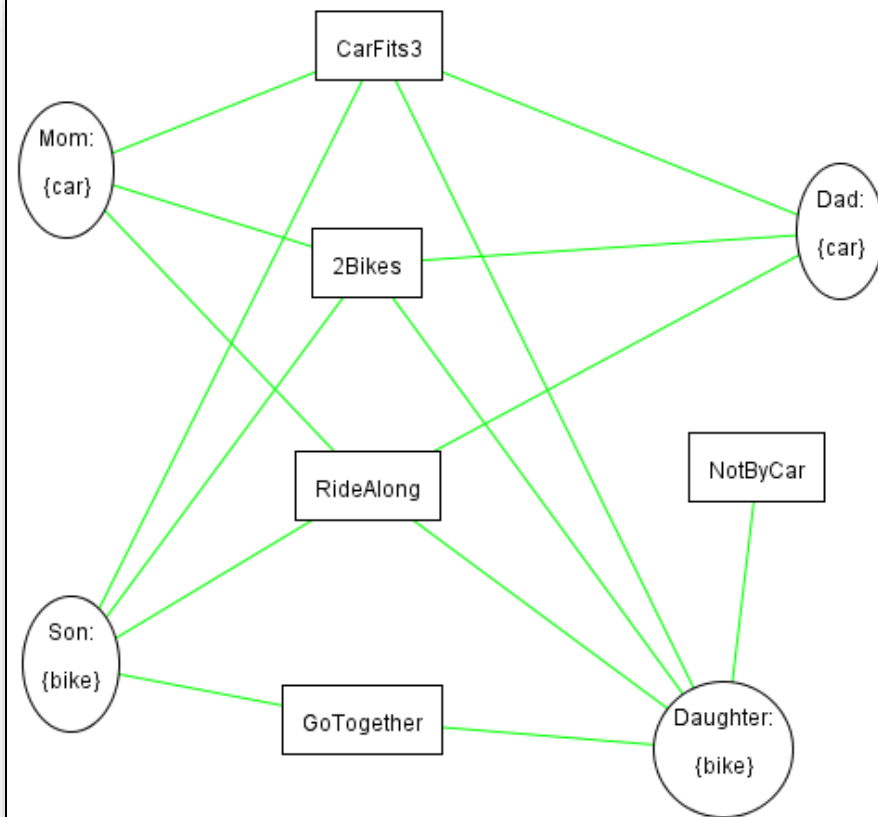
Custom Name:

**Customize relation:**

Son	Daugh...	Dad	Mom	True	
car	car	car	car	<input type="checkbox"/>	▲
car	car	car	bike	<input checked="" type="checkbox"/>	☰
car	car	bike	car	<input checked="" type="checkbox"/>	
car	car	bike	bike	<input checked="" type="checkbox"/>	
car	bike	car	car	<input checked="" type="checkbox"/>	▼

**Reorder Variables**

## AFTER ADDING UNARY CONSTRAINT



DOMAIN-SPLITTING HISTORY:

Solution found: Mom = car, Dad = car, Daughter = bike, Son = bike

