```python
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facts = {'a': True, 'b': True, 'c': False}
rules = [('d', ['a', 'b']), ('e', ['b', 'c']), ('f', ['d', 'e'])]

def forward_chaining(facts, rules, goal):
    inferred = {k for k, v in facts.items() if v}
    while True:
        new = {h for h, b in rules if h not in inferred
and all(f in inferred for f in b)}
        if not new: break
        inferred |= new
    return goal in inferred

for g in ['d', 'e', 'f']:
    print(f"{g}: {'Achieved' if forward_chaining(facts,
rules, g) else 'Not achieved'}")
```

```
d: Achieved
e: Not achieved
f: Not achieved

[Program finished]
```