



main.py



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Output

```
1 knowledge_base = {
2     "flu": [["cough", "fever"]],
3     "fever": [["sore_throat"]],
4 }
5
6 facts = {"sore_throat", "cough"}
7
8 def backward_chaining(goal):
9     if goal in facts:
10         return True
11     if goal in knowledge_base:
12         for conditions in knowledge_base[goal]:
13             if all(backward_chaining(cond) for cond in conditions): #
14                 return True
15     return False
16
17 |
18 query = "flu"
19 if backward_chaining(query):
20     print(f"The patient is diagnosed with {query}.")
21 else:
22     print(f"The patient does NOT have {query}.")
23
```

The patient is diagnosed with flu

=== Code Execution Successful ===