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class Clause:
    ... def __init__(self, literals):
    ...     self.literals = set(literals)

    ... def __str__(self):
    ...     return "V".join(sorted(self.literals))

    ... def __eq__(self, other):
    ...     return self.literals == other.literals

    ... def __hash__(self):
    ...     return hash(frozenset(self.literals))

def negate(literal):
    ... if literal.startswith('~'):
    ...     return literal[1:] # Remove negation
    ... else:
    ...     return '~' + literal # Add negation

def resolve(clause1, clause2):
    ... resolvents = []
    ... for literal in clause1.literals:
    ...     if negate(literal) in clause2.literals:
    ...         new_clause = (clause1.literals | clause2.literals) - {literal, negate(literal)}
    ...         resolvents.append(Clause(new_clause))
    ... return resolvents

def resolution(clauses, query):
    ... # Negate the query
    ... negated_query = negate(query)
    ... clauses.append(Clause([negated_query]))

    ... new_clauses = set(clauses)
    ... while True:
    ...     pairs = [(c1, c2) for i, c1 in enumerate(new_clauses) for c2 in list(new_clauses)[i+1:]]
    ...     new_resolvents = set()
    ...     for c1, c2 in pairs:
    ...         resolvents = resolve(c1, c2)
    ...         new_resolvents.update(resolvents)

    ...     # If we derive an empty clause, the original set entails the query
    ...     if Clause(set()) in new_resolvents:
    ...         return True

    ...     # Add new resolvents to the set of clauses
    ...     new_clauses.update(new_resolvents)

    ...     # If no new clauses are generated, we stop
    ...     if new_resolvents.issubset(new_clauses):
    ...         break

    ... return False

# Example usage
if __name__ == "__main__":
    ... # Define some clauses
    ... clauses = [
    ...     Clause(['A', 'B']),
    ...     Clause(['~A', 'C']),
    ...     Clause(['~B', '~C']),
    ... ]

    ... # Query to resolve
    ... query = 'C'

    ... # Perform resolution
    ... result = resolution(clauses, query)
    ... print(f"The query '{query}' is {'entailed' if result else 'not entailed'} by the clauses.")

    ... The query 'C' is not entailed by the clauses.

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