

기초 인공지능

#Assignment03 – Logic

From Sentence to Logic

```
C:\Users\Lee\Desktop\AI3>python formulas.py

===== START Formula Check =====

----- START TEST test of statement 1 for O1 -----
You matched the 7 tests
Example model: {'Summer', 'Rain'}
-----> Correct Formula!

----- START TEST test of statement 2 for O1 -----
You matched the 4 tests
Example model: set()
-----> Correct Formula!

----- START TEST test of statement 3 for O1 -----
You matched the 2 tests
Example model: {'Day'}
-----> Correct Formula!

----- START TEST test of statement 1 for O2 -----
You matched the 343 tests
Example model: {'Mother(o2,o3)', 'Person(o3)', 'Mother(o3,o2)', 'Person(o1)', 'Mother(o1,o3)'}
-----> Correct Formula!

----- START TEST test of statement 2 for O2 -----
You matched the 169 tests
Example model: {'Child(o1,o3)', 'Person(o3)', 'Person(o2)', 'Child(o2,o3)', 'Child(o1,o2)'}
-----> Correct Formula!

----- START TEST test of statement 3 for O2 -----
You matched the 512 tests
Example model: {'Daughter(o3,o1)', 'Female(o1)', 'Child(o3,o1)', 'Child(o3,o2)', 'Female(o3)', 'Child(o1,o2)'}
-----> Correct Formula!

----- START TEST test of statement 4 for O2 -----
You matched the 512 tests
Example model: {'Parent(o2,o3)', 'Female(o1)', 'Female(o3)'}
-----> Correct Formula!

----- START TEST test of statement 1 for O3 -----
You matched the 2 tests
Example model: {'TellTruth(john)'}
-----> Correct Formula!

----- START TEST test of statement 2 for O3 -----
You matched the 2 tests
Example model: {'TellTruth(susan)', 'CrashedServer(nicole)'}
-----> Correct Formula!

----- START TEST test of statement 3 for O3 -----
You matched the 2 tests
Example model: set()
-----> Correct Formula!
```

```
Example model: set()
-----> Correct Formula!

----- START TEST test of statement 4 for O3 -----
You matched the 2 tests
Example model: {'TellTruth(nicole)'}
-----> Correct Formula!

----- START TEST test of statement 5 for O3 -----
You matched the 4 tests
Example model: {'TellTruth(john)'}
-----> Correct Formula!

----- START TEST test of statement 6 for O3 -----
You matched the 4 tests
Example model: {'CrashedServer(john)'}
-----> Correct Formula!

----- START TEST test of statement 1 for O4 -----
You matched the 8 tests
Example model: {'Successor(o1,o2)', 'Successor(o2,o3)', 'Successor(o3,o1)'}
-----> Correct Formula!

----- START TEST test of statement 2 for O4 -----
You matched the 8 tests
Example model: {'Odd(o3)', 'Odd(o2)', 'Odd(o1)'}
-----> Correct Formula!

----- START TEST test of statement 3 for O4 -----
You matched the 13009 tests
Example model: {'Odd(o3)', 'Successor(o1,o1)', 'Successor(o3,o2)', 'Successor(o1,o3)', 'Odd(o2)', 'Successor(o2,o3)', 'Even(o2)', 'Successor(o2,o1)', 'Successor(o3,o3)', 'Odd(o1)'}
-----> Correct Formula!

----- START TEST test of statement 4 for O4 -----
You matched the 13009 tests
Example model: {'Even(o3)', 'Successor(o3,o2)', 'Successor(o1,o3)', 'Even(o1)', 'Successor(o2,o1)', 'Successor(o1,o2)'}
-----> Correct Formula!

----- START TEST test of statement 5 for O4 -----
You matched the 19683 tests
Example model: {'Larger(o3,o2)', 'Successor(o1,o1)', 'Larger(o1,o1)', 'Successor(o1,o3)', 'Larger(o1,o2)', 'Successor(o2,o3)', 'Successor(o2,o1)', 'Larger(o2,o2)', 'Larger(o2,o3)', 'Larger(o3,o1)'}
-----> Correct Formula!

----- START TEST test of statement 6 for O4 -----
You matched the 171 tests
Example model: {'Larger(o2,o1)', 'Larger(o3,o3)', 'Larger(o2,o3)'}
-----> Correct Formula!

C:\Users\Lee\Desktop\AI3>
```