

Program:

3. P.T 'snappy will die' using resolution:

import re

def isVariable (A)

return len(A) == 21 and A.islower() and A.isalpha()

def getAntihook (str1):

expr = '\( ^ \) \+ \]

matches = re.findall (expr, str1)

return matches

def getPredicate (str1):

expr = '([a-z-]+) \[ ^ \] \+ \]

return re.findall (expr, str1)

class Post:

def \_\_init\_\_ (self, exprs):

self.exprs = exprs

self.predicate, self.param = self.splitExpr (exprs)

self.predicate = predicate

self.param = param

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self.result = 'any (self.get_constants())
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```
def split_params (self, params):
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```
    predict = get_predict (params)[0].
```

```
    params = get_params (params)[0].split(' ').
```

```
    return (predict, params)
```

```
def get_result (self):
```

```
    return self.result
```

```
def get_constants (self):
```

```
    return (len of constants) if (len of self.params)
```

```
def get_variables (self):
```

```
    return (len of variables) if (len of self.params)
```

```
self.params)
```

```
def submit (self, constants):
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```
    c = constants.copy()
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```
    for i in range (len of constants):
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```
        if (len of constants) < len of self.params:
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```
            return False
```

don't simplify:

def \_\_init\_\_(self, expr):

self.expr = expr

for expr in self.expr:

self.expr = [self.expr[0] for i in self.expr]

self.expr = self.expr

def evaluate(self, facts):

return self

new\_expr = []

for fact in facts:

for val in self.expr:

if val.predicate == fact.predicate:

for i, v in enumerate(self.get\_variables()):

if v.contains(v) == fact.get\_variables()[i]:

new\_expr.append(fact)

predicate, attribute = self.predicate(self.expr[0]),

str(get\_attribute(self.expr[0]))

for key in contents:

if content (key):

getvalue = getvalue.replace (key, contents (key))

except f('s present') getvalue:

~~except f('s present')~~

return dict (copy) of len (new-its) and all

(f.get key (1 for f in new-its) else None

Check:

def \_\_init\_\_ (self):

self.foo = {}

self.bar = {}

def green (self, v):

foo = self (f. content for f in self.foo)

{2}

print (f'green {v}')

for f in foo:

if foo (f. bar) == f (f. bar)

print (f'it (L), {f}')

def draw (self):

print (upper f (v))

for i, f in enumerate (set (f. content for f in self.foo)):

print (f'it {i} {f}')