474 Assessed Coursework/TestSummary

TestSummary.txt: 1/1 Devin Nanayakkara - dvn14: i4

474 Assessed Coursework/Submitted Files

```
1: %add below the definition of grounded/1
 2: %(i.e. your answer to Part 1)
3: % do not include any examples
5: :- dynamic(attacks/2).
7: attackers(I,A) :- findall(X,attacks(X,I),A).
9: defence_from_attacks(_,[]) :- !.
10: defence_from_attacks(X,[H|T]) :-
           attacks(Y,H),
12:
       \+ attacks(Y,X),
13:
           grounded(Y),
14:
        defence_from_attacks(X,T).
15:
16: %checks_self_attacks
17: grounded(X) :-
18:
           attacks (X, X), !, fail.
19:
20: %checks_attacks_between_themselves
21: grounded(X) :-
22:
           attacks(X,Y),
23:
           attacks(Y,X),!,fail.
24:
25: %checks_unattacked
26: grounded(X) :-
27:
           argument(X),
28:
           \+ attacks(_, X) ,!.
29:
30: %checks_defence_against_attacks
31: grounded(X) :-
32:
        argument(X),
33:
           attackers(X,A),
34:
           defence_from_attacks(X,A).
```

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grounded.pl: 1/1

df_quad.pl: 1/1

68: $calc_strength(I,Y)$, 69: X == Y. Devin Nanayakkara - dvn14: i4

angrymen.pl: 1/1

```
1: %add below your answer to Part 2
 2:
 3: %arguemnts
 4: argument(a0).
 5: argument(a1).
 6: argument (a2).
7: argument(a3).
8: argument(a4).
9: argument (a5).
10: argument (a6).
11: argument (a7).
12: argument (a8).
13: argument(a9).
14: argument (a10).
15: argument (a11).
16: argument (a12).
17: argument (a13).
18: argument (a14).
19: argument (a15).
20: argument (a16).
21: argument (a17).
22:
23: %attacks
24: attacks(a1,a0).
25: attacks(a2,a1).
26: attacks(a3,a0).
27: attacks(a3,a2).
28: attacks(a5,a0).
29: attacks(a7,a4).
30: attacks(a7,a6).
31: attacks(a8,a0).
32: attacks(a9,a8).
33: attacks(a13,a0).
34: attacks(a14,a13).
35: attacks(a15,a14).
36: attacks(a17,a3).
37:
38: %supports
39: supports(a2,a0).
40: supports(a2,a4).
41: supports(a3,a1).
42: supports (a6, a4).
43: supports(a8,a1).
44: supports(a10,a1).
45: supports(a10,a3).
46: supports(all,al0).
47: supports(a12,a1).
48: supports(a13,a1).
49: supports (a15, a13).
50: supports(a17,a0).
51: supports(a17,a16).
52:
```

```
TestLog.txt: 1/3
    1: % compiling /root/labcat/labcat/engines/lib/prolog/automarker_ft.pl...
                                                                                              53: ves
    2: % loading /usr/lib/sicstus4.3.5/bin/sp-4.3.5/sicstus-4.3.5/library/timeout.po...
                                                                                              54: ves
    3: % module timeout imported into user
                                                                                              55: yes
    4: % loading /usr/lib/sicstus4.3.5/bin/sp-4.3.5/sicstus-4.3.5/library/types.po...
                                                                                              56: yes
    5: % module types imported into timeout
                                                                                              57: ves
    6: % loaded /usr/lib/sicstus4.3.5/bin/sp-4.3.5/sicstus-4.3.5/library/types.po in mo
                                                                                              58: yes
dule types, 0 msec 4112 bytes
                                                                                              59: yes
    7: % loading foreign resource /usr/lib/sicstus4.3.5/bin/sp-4.3.5/sicstus-4.3.5/libr
                                                                                              60: ves
ary/x86_64-linux-glibc2.17/timeout.so in module timeout
                                                                                              61: yes
    8: % loaded /usr/lib/sicstus4.3.5/bin/sp-4.3.5/sicstus-4.3.5/library/timeout.po in m
                                                                                              62: ves
odule timeout, 0 msec 50464 bytes
                                                                                               63: ves
    9: % compiled /root/labcat/labcat/engines/lib/prolog/automarker_ft.pl in module user,
                                                                                              64: yes
 180 msec 1044720 bytes
                                                                                               65: ves
   10: SICStus 4.3.5 (x86 64-linux-glibc2.17): Tue Dec 6 10:41:06 PST 2016
                                                                                              66: ves
   11: Licensed to SP4.3doc.ic.ac.uk
                                                                                              67: ves
   12: % compiling /tmp/d20180208-36-33rr5r/src/argumentation_autopatch.pl...
                                                                                               68: ves
   13: % loading /usr/lib/sicstus4.3.5/bin/sp-4.3.5/sicstus-4.3.5/library/lists.po...
                                                                                              69: ves
   14: % module lists imported into user
                                                                                              70: yes
                                                                                              71: ves
   15: % module types imported into lists
   16: % loaded /usr/lib/sicstus4.3.5/bin/sp-4.3.5/sicstus-4.3.5/library/lists.po in mod
                                                                                              72: ves
ule lists, 10 msec 126544 bytes
                                                                                              73: ves
   17: % compiled /tmp/d20180208-36-33rr5r/src/argumentation_autopatch.pl in module user,
                                                                                              74: ves
 10 msec 150416 bytes
                                                                                              75: ves
   18: ves
                                                                                              76: yes
   19: % compiling /tmp/d20180208-36-33rr5r/src/grounded.pl...
                                                                                              77: yes
                                                                                              78: ves
   20: % compiled /tmp/d20180208-36-33rr5r/src/grounded.pl in module submittedGrounded, 0
 msec 2816 bytes
                                                                                              79: yes
   21: yes
                                                                                              80: yes
   22: % compiling /tmp/d20180208-36-33rr5r/src/df quad.pl...
                                                                                              81: ves
   23: % compiled /tmp/d20180208-36-33rr5r/src/df_quad.pl in module submittedDFQUAD, 0 ms
                                                                                              82: yes
ec 10656 bytes
                                                                                              83: yes
   24: ves
                                                                                              84: ves
   25: % compiling /tmp/d20180208-36-33rr5r/src/angrymen.pl...
                                                                                               85: ves
   26: % compiled /tmp/d20180208-36-33rr5r/src/angrymen.pl in module submittedANGRY, 0 ms
                                                                                              86: ves
ec 9152 bytes
                                                                                              87: yes
   27: ves
                                                                                               88: ves
   28: % compiling /tmp/d20180208-36-33rr5r/src/aba.pl...
                                                                                               89: yes
   29: % compiled /tmp/d20180208-36-33rr5r/src/aba.pl in module submittedABA, 0 msec 0 by
                                                                                               90: ves
                                                                                              91: ves
   30: yes
                                                                                               92: yes
   31: % compiling /tmp/d20180208-36-33rr5r/src/ma grounded.pl...
                                                                                               93: ves
   32: % compiled /tmp/d20180208-36-33rr5r/src/ma grounded.pl in module modelGrounded, 10
                                                                                              94: ves
 msec 4432 bytes
                                                                                               95: ves
   33: yes
                                                                                              96: yes
   34: % compiling /tmp/d20180208-36-33rr5r/src/ma_df_quad.pl...
                                                                                              97: yes
   35: % compiled /tmp/d20180208-36-33rr5r/src/ma_df_quad.pl in module modelDFQUAD, 0 mse
                                                                                              98: yes
c 6256 bytes
                                                                                              99: ves
   36: yes
                                                                                              100: yes
   37: % compiling /tmp/d20180208-36-33rr5r/src/ma_angrymen.pl...
                                                                                              101: yes
   38: % compiled /tmp/d20180208-36-33rr5r/src/ma_angrymen.pl in module modelANGRY, 0 mse
                                                                                              102: yes
                                                                                              103: yes
c 7056 bytes
   39: yes
                                                                                              104: yes
   40: % compiling /tmp/d20180208-36-33rr5r/src/ma_aba.pl...
                                                                                              105: yes
   41: % loading /usr/lib/sicstus4.3.5/bin/sp-4.3.5/sicstus-4.3.5/library/sets.po...
                                                                                              106: yes
   42: % module sets imported into modelABA
                                                                                              107: yes
   43: % module lists imported into sets
                                                                                              108: yes
   44: % loaded /usr/lib/sicstus4.3.5/bin/sp-4.3.5/sicstus-4.3.5/library/sets.po in modu
                                                                                              109: yes
le sets, 0 msec 23456 bytes
                                                                                              110: yes
   45: % compiled /tmp/d20180208-36-33rr5r/src/ma_aba.pl in module modelABA, 0 msec 28112
                                                                                              111: yes
 bytes
                                                                                              112: yes
   46: yes
                                                                                              113: yes
   47: yes
                                                                                              114: yes
   48: yes
                                                                                              115: yes
   49: yes
                                                                                              116: yes
   50: yes
                                                                                              117: yes
   51: ves
                                                                                              118: ves
   52: yes
                                                                                              119: yes
```

| 474 | Assessed | Coursework | /Public | Tests |
|-----|----------|------------|------------|-------|
| 4/4 | ASSESSEU | COULSEMOIY | / Fubition | TESES |

TestLog.txt: 2/3

Devin Nanayakkara - dvn14: i4

| / | nssesseu | COUISEWOIR/FUDIIC | lests |
|------|------------|-------------------|-------|
| 120. | yes | | |
| | yes | | |
| 149: | yes | | |
| | yes | | |
| 151: | yes | | |
| 152: | yes | | |
| 153: | yes | | |
| 154: | yes | | |
| 155: | yes | | |
| | yes yes | | |
| | yes | | |
| 186: | yes | | |

187: yes 188: yes 189: yes 190: yes 191: yes 192: yes 193: yes 194: yes 195: yes 196: yes 197: yes 198: yes 199: yes 200: yes 201: yes 202: yes 203: yes 204: yes 205: yes 206: yes 207: yes 208: yes 209: yes 210: yes 211: yes 212: yes 213: yes 214: yes 215: yes 216: yes 217: yes 218: yes 219: yes 220: yes 221: yes 222: yes 223: yes 224: yes 225: yes 226: yes 227: yes 228: yes 229: yes 230: yes 231: yes 232: yes 233: yes 234: yes 235: yes 236: yes 237: yes 238: yes 239: yes 240: yes 241: yes 242: yes 243: yes 244: yes 245: yes 246: yes 247: yes 248: yes 249: yes 250: yes 251: yes 252: yes 253: yes

474 Assessed Coursework/Public Tests

TestLog.txt: 3/3

```
254: yes
255: yes
256: yes
257: yes
258: ves
259: yes
260: yes
261: yes
262: yes
263: yes
264: yes
265: yes
266: yes
267: yes
268: yes
269: yes
270: yes
271: yes
272: yes
273: yes
274: ! Existence error in submittedABA:argument/1
275: ! procedure submittedABA:argument/1 does not exist
276: ! goal: submittedABA:argument((a,_383))
277: ! Existence error in submittedABA:argument/1
278: ! procedure submittedABA:argument/1 does not exist
279: ! goal: submittedABA:argument((y,_383))
280: ! Existence error in submittedABA:argument/1
281: ! procedure submittedABA:argument/1 does not exist
282: ! goal: submittedABA:argument((z,_383))
283: yes
284: Existence error in submittedABA:attacks/2
285: ! procedure submittedABA:attacks/2 does not exist
286: ! goal: submittedABA:attacks((_383,_385),(x,_391))
287: ! Existence error in submittedABA:attacks/2
288: ! procedure submittedABA:attacks/2 does not exist
289: ! goal: submittedABA:attacks((y,_385),(y,_391))
290: yes
```

Devin Nanayakkara - dvn14: i4

```
68: | ? grounded(e).
                                                       69: no
2:
       474 Arg&MAS::Assessed Coursework
                                                                 %% correct
3 .
       Submission: dvn14
                                                       70:
                                                       71: ----- Test 6 ::f in GE -----
5:
                                                       73: | ? grounded(f).
                                                       74: yes
8: ----- Test 1 ::a not in GE ------
                                                       75:
10: | ? grounded(a).
                                                       78: Part 1 (Loops)
11: no
        %% correct
                                                       79: TESTS PASSED: 6 / 6; MARKS: 6 / 6
13: ----- Test 2 ::b not in GE -----
15: | ? grounded(b).
16: no
        %% correct
17:
                                                       84: ----- Test 1 ::correct set of arguments considered -----
18: ----- Test 3 ::c in GE -----
                                                       86: | ? arguments_differences.
20: | ? grounded(c).
                                                       87:
21: yes
                                                       88: These arguments should not be mined:
        %% correct
23: ----- Test 4 ::d not in GE -----
                                                       90: These arguments are missing:
25: | ? grounded(d).
26: no %% correct
                                                       93: These arguments should not be mined:
28: ----- Test 5 ::e in GE -----
                                                       95: These arguments are missing:
30: | ? grounded(e).
                                                       97 .
                                                               %% correct
31: yes %% correct
                                                       98 .
33: ----- Test 6 ::f in GE -----
                                                       100: -----
35: | ? grounded(f).
                                                       102: TESTS PASSED: 1 / 1; MARKS: 1 / 1
                                                       103: -----
36: yes
       %% correct
37:
39: -----
                                                       106: Part 3 (Only Attacks)
40: Part 1 (No-loops)
                                                       107: ----- Test 1 ::strength of d -----
41: TESTS PASSED: 6 / 6; MARKS: 6 / 6
                                                       109: | ? strength(d,_947).
                                                       110: no
44: -----
                                                       112: ----- Test 2 ::strength of c -----
45: Part 1 (Loops)
46: ----- Test 1 ::a not in GE -----
                                                       113.
47:
                                                       114: | ? strength(c,_947).
48: | ? grounded(a).
                                                       115: no
49 · no
     %% correct
                                                       116:
50:
                                                       117: ----- Test 3 ::strength of b -----
51: ----- Test 2 ::b not in GE -----
                                                       118:
52:
                                                       119: | ? strength(b,_947).
53: | ? grounded(b).
                                                       120: no %% WRONG
54: no
     %% correct
                                                       121:
                                                       122: ----- Test 4 ::does a have strength 0.234375? ------
56: ----- Test 3 ::c not in GE -----
57:
                                                       124: | ? strength(a, 0.234375).
58: | ? grounded(c).
                                                       125: yes
                                                                %% correct
59: no
     %% correct
                                                       126:
61: ----- Test 4 ::d not in GE -----
                                                       128: -----
                                                       129: Part 3 (Only Attacks)
63: | ? grounded(d).
                                                       130: TESTS PASSED: 1 / 4 ; MARKS: 1 / 4
64: no
     %% correct
                                                       131: -----
66: ----- Test 5 ::e not in GE -----
67:
                                                       134: Part 3 (Only Supports)
```

TestResults.txt: 1/2

TestResults.txt: 2/2

```
135: ----- Test 1 ::strength of d -----
137: | ? strength(d,_947).
138: no
        %% WRONG
139:
140: ----- Test 2 ::strength of c -----
142: | ? strength(c, 947).
143: no
145: ----- Test 3 ::strength of b -----
147: | ? strength(b,_947).
148: no
        %% WRONG
150: ----- Test 4 ::strength of a -----
152: | ? strength(a,_947).
153: no
        %% WRONG
154:
155:
156: -----
157: Part 3 (Only Supports)
158: TESTS PASSED: 0 / 4 ; MARKS: 0 / 4
159: -----
160:
161: -----
162: Part 3 (Attacks and Supports)
163: ----- Test 1 ::strength of d -----
164:
165: | ? strength(d,_947).
166: no
     %% WRONG
168: ----- Test 2 ::strength of c -----
170: | ? strength(c, 947).
171: no
     %% WRONG
172:
173: ----- Test 3 ::strength of b -----
174:
175: | ? strength(b,_947).
176: no
     %% WRONG
178: ----- Test 4 ::strength of a is 0.390625? -----
179:
180: | ? strength(a, 0.390625).
181: yes %% correct
182:
183:
185: Part 3 (Attacks and Supports)
186: TESTS PASSED: 1 / 4 ; MARKS: 1 / 4
188:
189: -----
190: Part 4 (Arguments)
191: ----- Test 1 :: argument for single assumptions -----
192:
193: | ? argument((a,[a])).
194: Test 1: FATAL ERROR!!
196: ----- Test 2 ::argument for non-assumptions -----
198: | ? argument((y,[b])).
199: Test 2: FATAL ERROR!!
201: ----- Test 3 ::non- arguments -----
```

```
203: | ? argument((z, _957)).
205: Test 3: FATAL ERROR!!
207: -----
208: Part 4 (Arguments)
209: TESTS PASSED: 0 / 3 (Fatal errors: 3); MARKS: 0 / 3
214: ----- Test 1 :: no attacks against any arguments with claim x ------
216: | ? attacks(_923,(x,_989)).
217: Test 1: FATAL ERROR!!
219: ----- Test 2 ::self-attacking arguments -----
221: | ? attacks((y,[b]),(y,[b])).
222.
223: Test 2: FATAL ERROR!!
225: -----
226: Part 4 (Attacks)
227: TESTS PASSED: 0 / 2 (Fatal errors: 5); MARKS: 0 / 2
229.
231: ------ SUMMARY -----
233: TESTS PASSED (dvn14): 15 / 30 (Fatal errors: 8); MARKS: 15 / 30
```