Zadanie: Indywidualne testowanie SPA przez poszczególnych studentów w Zespole – Iteracja 3

Imie i nazwisko: Adrian Gołębiowski

Nr indeksu: 99008

Tablica testów pojedynczych relacji:

Relacja	Liczba testów
Follows	5
Follows*	5
Modifies	10
Next	5
Parent	5
Parent*	5
Uses	5

Tablica testów dwóch lub więcej relacji

Modifies + Uses	5
Follows + Parent	5
Uses + Parent	5
Follows + Uses	5

Kod programu SIMPLE:

```
procedure Circle {
t = 1;
a = t + 10;
d = t * a + 2;
call Triangle;
b = t + a;
call Hexagon;
b = t + a;
if t then {
   k = a - d;
   while c {
       d = d + t;
      c = d + 1; }
else {
   a = d + t;
   call Hexagon;
call Rectangle; }
procedure Rectangle {
while c {
   t = d + 3 * a + c;
   call Triangle;
  c = c + 20; }
d = t; }
procedure Triangle {
while d {
   if t then {
       a = t * a + d + k * b; }
c = t + k + d; }
procedure Hexagon {
t = a + t; }
```

Testy pojedynczych relacji:

```
while w;
Select w such that Modifies (w,"d")
10, 18, 23
while w;
Select w such that Modifies (w,"c")
variable v;
Select v such that Modifies (28, v)
variable v;
Select v such that Modifies (3,v)
variable v;
Select v such that Modifies (4, v)
a, d, c
variable v;
Select v such that Modifies (6, v)
while w; variable v;
Select w such that Modifies (w, v)
18, 23, 10
variable v;
Select v such that Modifies (18, v)
t, a, d, c
variable v;
Select v such that Modifies (24, v)
a, d
variable v;
Select v such that Modifies (28, v)
stmt s;
Select s such that Parent (s,10)
stmt s;
Select s such that Parent (s,20)
18
stmt s;
Select s such that Parent (s,11)
10
stmt s;
Select s such that Parent (9,s)
none
stmt s;
Select s such that Parent (s,2)
none
```

```
while w;
Select w such that Parent* (w,9)
none
while w;
Select w such that Parent* (w,11)
10
while w;
Select w such that Parent* (w,13)
none
stmt s; while w;
Select w such that Parent* (s,11)
10, 18, 23
while w;
Select w such that Parent* (w,21)
18
stmt s;
Select s such that Follows (s,12)
11
stmt s;
Select s such that Follows (s, 13)
10
stmt s;
Select s such that Follows (s,23)
none
assign a;
Select a such that Follows (a,8)
assign a;
Select a such that Follows (a,13)
none
t, a, d, b, k, c
variable v;
Select v such that Uses (23, v)
t, a, d, b, k
stmt s;
Select s such that Uses (s,"d")
4, 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 23, 24, 26, 27
prog line n2;
Select BOOLEAN such that Next (1,2)
true
prog line n2;
Select BOOLEAN such that Next (6,8)
false
prog line n2;
Select BOOLEAN such that Next (8,9)
```

```
true
prog line n2;
Select BOOLEAN such that Next (12,10)
true
prog_line n2;
Select BOOLEAN such that Next (10,11)
true
stmt s;
Select s such that Follows* (s,1)
none
assign a;
Select a such that Follows* (a,10)
assign a;
Select a such that Follows* (a,12)
stmt s; while w;
Select w such that Follows* (w, s)
10, 18, 23
stmt s;
Select s such that Follows* (s,19)
none
stmt s;
Select s such that Uses (s,"c")
8, 10, 16, 17, 18, 19, 21
variable v;
Select v such that Uses (10, v)
t, d, c
variable v;
Select v such that Uses (18, v)
```

Testy dwóch lub więcej relacji:

```
assign a;
Select a such that Modifies (a, "a") and Uses (a, "a")
procedure p;
Select p such that Modifies (p,"c") and Uses (p,"a")
Rectangle, Triangle
assign a;
Select a such that Modifies (a, "d") and Uses (a, "d")
11
assign a;
Select a such that Modifies (a, "c") and Uses (a, "c")
16, 21
assign a;
Select a such that Modifies (a, "b") and Uses (a, "b")
stmt s; while w;
Select s such that Follows(s, 4) and Parent(w, s)
stmt s; while w;
Select s such that Follows(w, s) and Parent(w, s)
assign a; stmt s; while w;
Select a such that Follows(a, s) and Parent(w, a)
none
stmt s; while w;
Select s such that Follows(s, w) and Parent(w, 8)
none
procedure p; stmt s; while w;
Select p such that Follows(w, s) and Parent(s, 2)
none
stmt s; while w;
Select s such that Uses(s, w) and Parent(w, 11)
none
stmt s; while w;
Select s such that Uses(s, 4) and Parent(w, s)
none
stmt s; while w;
Select s such that Uses(w, s) and Parent(w, s)
none
procedure p; stmt s; while w;
Select p such that Uses(w, s) and Parent(s, 5)
none
assign a; stmt s; while w;
Select a such that Uses(a, s) and Parent(w, a)
none
```

```
stmt s; while w;
Select s such that Follows(s, w) and Uses(w, 11)
none

procedure p; stmt s; while w;
Select p such that Follows(w, s) and Uses(s, 5)
none

stmt s; while w;
Select s such that Follows(w, s) and Uses(w, s)
none

assign a; stmt s; while w;
Select a such that Follows(a, s) and Uses(w, a)
none

stmt s; while w;
Select s such that Follows(s, 4) and Uses(w, s)
none
```