

```
1:      [* This test file should contain 21 errors *]
2:
3:      $$
4:      real realVarA ,realVarB , realVarC;
5:
6:      int XCoord, YCoord, ZCoord;
7:      int XCoord; [* duplicate symbol *]
8:      int aCoord, bCoord, cCoord;
9:      int operation;
10:
11:      boolean success;
12:
13:      realVarA = 10123; [* type mismatch *]
14:      realVarB = 610; [* type mismatch *]
15:      realVarC = 3; [* type mismatch *]
16:      XCoord = 20;
17:      YCoord = 912;
18:      ZCoord = 120;
19:      aCoord = true; [* type mismatch *]
20:      bCoord = false; [* type mismatch *]
21:      cCoord = unknown; [* undeclared variable *]
22:      unknown = cCoord; [* undeclared variable *]
23:      success = 420; [* type mismatch *]
24:
25:      realVarA = XCoord; [* type mismatch *]
26:
27:      get(operation);
28:
29:      [* undeclared var in condition tests *]
30:      [* 1 *]
31:      if(unknown == 5) [*undeclared variable *]
32:      {
33:          success = false;
34:      }ifend
35:
36:      [* 2 *]
37:      if(5 == unknown) [*undeclared variable *]
38:      {
39:          success = true;
40:      }ifend
41:
42:      while(operation ^= 0 ){
43:          if(operation == 1)
44:          {
45:              aCoord = realVarA + XCoord; [* type mismatch *]
46:              bCoord = realVarB + YCoord; [* type mismatch *]
47:              cCoord = realVarC + ZCoord; [* type mismatch *]
48:          }ifend
49:          if(operation == 2.0) [* type mismatch *]
50:          {
51:              aCoord = realVarA - XCoord; [* type mismatch *]
52:              bCoord = realVarB - YCoord; [* type mismatch *]
53:              cCoord = realVarC - ZCoord; [* type mismatch *]
54:          }ifend
55:          if(operation == 3)
56:          {
57:              aCoord = XCoord * 2;
58:              bCoord = YCoord * 1.5; [* type mismatch *]
59:              cCoord = ZCoord * ZCoord;
60:          }ifend
61:          if(operation == 45)
62:          {
63:              aCoord = realVarA / XCoord; [* type mismatch *]
64:              bCoord = realVarB / YCoord; [* type mismatch *]
65:              cCoord = realVarC / ZCoord; [* type mismatch *]
66:          }ifend
67:          if( operation > 4)
68:          {
69:              operation = 0;
70:          }ifend
71:          if (operation > 0)
72:          {
73:              operation = 0;
74:          }ifend
75:          operation = operation - 1;
76:      }whileend
77:
78:
79:      put(aCoord);
80:      put(bCoord);
81:      put(cCoord);
82:
83:      $$
```