b) Consider the following code. Given a test suite T that has two tests t1, and t2 as follows: t1: <x=1, y=0>, t2: <x= 2, y=1>.

Calculate the branch (i.e., decision) coverage of that the test suite T. You need to show all the steps for your calculation [8]:

```
Begin
   int x, y, z;
   input (x, y);
   if(y > 0)
         if(x=0)
              z = fool(x, y);
         else
               z = foo2(x, y);
         y = y-1;
   }
   else
   {
        z = foo3(x,y);
 End
T1:<x=1, y=0>:
   Covers y>0 \rightarrow false branch
T2: \langle x=2, y=1 \rangle:
   Covers y>0 \rightarrow true branch
   Covers x=0 \rightarrow false branch
Branch coverage = \frac{3}{4}=0.75
Tracing for T1
Tracing for T2
Equation for branch coverage
Substitution to get the correct coverage
```