Home work  20 points

Draw the run time stack for the following two programs and print the output produced.

1)

Program A;
{
    int a;
    float b;
    procedure P (int x)
    {
        int c = 0, b = 1;
        c = a + b;
    } //end P
    Procedure Q ( procedure fp)
    {
        fp(5);
    } //end Q
    Procedure R(int y)
    {
        int a, c;
        procedure T(int x)
        {
            b = x + c;
            x = a + b;
        } //end T
        a = c = 5;
        Q(P);
    } //end Procedure R
    a = 1;
    b = 2.2;
    R(a);
    Print (a);
    Print(b);
} //end A
Program A;
{
    int a;
    float b;
    procedure P (int x)
    {
        int c = 0, b = 1;
        c = a + b;
    }//end P
    Procedure Q ( procedure fp)
    {
        fp(5);
    }//end Q
    Procedure R(int y)
    {
        int a, c;
        procedure T(int x)
        {
            b = x + c;
            x = a + b;
        }//end T
        a = c = 5;
        Q(T);
    }//end Procedure R
    a = 1;
    b = 2.2;
    R(a);
    Print (a);
    Print(b);
}//end A