Lagrangian Interpolation

Pseudo-code

1. Input no. of observation, n
2. For i = 1 to n
    Input Xi
    Input Yi
   Next i
3. Input Xp at which Yp to be computed
4. Initialize Yp = 0
5. For i = 1 to n
    t=1
    For j = 1 to n
        If j $\neq$ i
            t= t * (Xp - Xj) / (Xi - Xj)
        End If
    Next j
    Yp = Yp + t * Yi
   Next i
6. Print Yp as output
7. Stop