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 ≠ i
   t= t * (Xp - Xj) / (Xi - Xj)
   End If
   Next j
   Yp = Yp + t * Yi
   Next i
6. Print Yp as output
7. Stop