Algorithm: Divided Difference Table

```
• Read n
   // Read elements
• For i = 0 to (n-1) in steps of 1 do
      o Read x[i], y[i]
   End for
    // Create divided difference table
• For j = 0 to (n-2) in steps of 1 do
      o For j = 0 to (n-j-2) in steps of 1 do
              ■ If (j == 0) then
                    \Box d[i][j] = \frac{y[i+1] - y[i]}{x[i+1] - x[i]}
                 Else
                    \Box d[i][j] = \frac{d[i+1][j-1] - d[i][j-1]}{x[i+j+1] - x[i]}
                 End if
          End for
   End for
   END
```

Vinayak Singoriya IT-2k19-72