Newton's forward difference

Algorithm

Step 1 start

Step 2 Declare $x[20], y[20], f, s, h, d, p$ as float data type & i, j, n as integer data type

Step 3 Read the records n and read the elements of x and y using for loop

Step 4 Calculate $h = x[2] - x[1]$

Step 5 Read the point which is going to be Searched

Step 6 Calculate $s = (f - x[1]/h)$
$$P = 1$$
$$d = y[1]$$

Step 7 Using for loop Calculate P and d
  (a) $y[j] = y[j+1] - y[j]$
  (b) $p = p * (s - j + 1)/i$
  (c) $d = d + p * y[1]$

Step 8 printf and d

Step 9 stop