Algorithm: Gaussian Quadrature Formula Method

- Read function f, lower limit a, upper limit b, number of points n
- Initialize Values dictionary(key value pair) of w1, w2, w3, ... wn and x1, x2, x3, ... xn with its predefined values
- Set $p = \frac{a+b}{2}$
- Set q = (b-a)/2
- Set integral = 0.0
- For i = 0 to n in steps of 1 do ○ F = f(p + q * values[n][i])○ integral += (Values[n][i]) * FEnd for
- Integral = q * integral
- Print integral

END

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