

Start

numberiter ,func ,a , b, method

$S2N = \text{method}(\text{func}, a, b)$
 $SN = \text{method}(\text{func}, a, a + (b-a)/2) +$
 $\text{method}(\text{func}, a + (b-a)/2, b)$
 $n = 2$
 $N = 4$
 $\text{eps} = [0] * (\text{numberiter}-1)$
 $q = 15$

method
== Gauss3

да

q=31

нет

n <= numberiter

да

$h = (b-a) / N$
 $S2N = SN$
 $i = 0$
 $SN = 0$

i < N

да

$SN += \text{method}(\text{func}, a +$
 $h*i, a + h*(i+1))$

i += 1

нет

нет

$\text{eps}[n - 2] =$
 $\text{math.fabs}(S2N-SN) / q$
 $N *= 2$
 $n += 1$

return eps