$$T(0) = 1$$

 $T(N) = T(N-1) + N$
 $T(N) - T(N-1) = N$
 $T(N-1) - T(N-2) = N-1$
 $T(N-2) - T(N-3) = N-3$
plugging in values for N:

$$\frac{f(N)-f(N-1)+[f(N-1)-f(N-1)+[f(N-2)-f(N-1)]}{f(N-1)+[f(N-1$$