

if $k = 0$

return $a_1 = 1$

else

$$\text{return } a_{2k+1} = (2k)! \left(\sum_{j=0}^k \frac{a_{2j+1}}{(2j+1)!} \cdot \frac{a_{2(k-j)+1}}{(2(k-j)+1)!} \right)$$