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In [1]: using TaylorSeries
        displayBigO(false)
        function hermite_polynomials(::Type{T}, nmax::Int) where {T <: Integer}
            x = Taylor1(T, nmax) # Taylor variable
            H = fill(x, nmax + 1) # vector of Taylor series to be overwritten
            H[1] = 1 # order 0
            H[2] = 2x \# order 1
            for n in 2:nmax
                # recursion relation for order n:
                H[n+1] = 2x * H[n] - 2(n-1) * H[n-1]
            end
           return H
         end
        hermite_polynomials(n) = hermite_polynomials(Int, n);
        H = hermite_polynomials(10);
        function hermite_polynomial(n::Int)
            @assert 0 < n < length(H) "Not enough Hermite polynomials generated"</pre>
           return H[n+1]
        end
        hermite_polynomial(6)
Out[1]: -120 + 720 t^2 - 480 t^4 + 64 t^6
```