# An apparent bug in `taylor` `(series)`

**First invocation returns too many terms ...**

```
> Order;
```

$$6$$

```
> taylor(sqrt(1+x),x);
```

$$1 + \frac{1}{2}x - \frac{1}{8}x^2 + \frac{1}{16}x^3 - \frac{5}{128}x^4 + \frac{7}{256}x^5 - \frac{21}{1024}x^6 + \frac{33}{2048}x^7 +$$

$$O(x^8)$$

**... but the second time, the result is correct.**

```
> taylor(sqrt(1+x),x);
```

$$1 + \frac{1}{2}x - \frac{1}{8}x^2 + \frac{1}{16}x^3 - \frac{5}{128}x^4 + \frac{7}{256}x^5 + O(x^6)$$