
Subject: Re: Order of member initialization

Posted by [jjacksonRIAB](#) on Thu, 22 Sep 2022 22:53:39 GMT

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peterh wrote on Fri, 23 September 2022 00:26

Oh my god, I am german spoken and this is hard to understand in english.

The DeepL transator, (which is usually very good) makes it completely confused.

I hope this translates to this semantically:

1) A sequence point is a finalizing point where all preceding calculations and initializations are completely processed.

2) An initializer list is strictly evaluated from left to right, and each bracketed initializer term ends with a sequencing point.

I hope I am not in error ; (I hope and assume this, because it makes some sense for me)

No kidding, it's pretty hard to follow the whole thing, but your understanding agrees with my own. But I'm left with other questions.

It says "brace-enclosed", so I wonder if paren-enclosed follow the member order in the class still.

The other thing I wonder about is if it also applies to brace-enclosed designated initializers e.g.

```
a = {  
    .b = 1,  
    .c = 2,  
    .d = 3  
};
```

One might ask where the problem comes from, so here's a pathological example:

```
a = {  
    .b = 1,  
    .c = 2,  
    .d = a.b  
};
```

The compiler might let you get away with that, but from what I'm told it's undefined behavior.
