Subject: DArray shrink: < or <= ?
Posted by MattM on Mon, 20 Mar 2017 03:11:54 GMT

As of the time of this post, the instructions say that the dynamic array’s capacity should be halved when the size is less than 25% of the total capacity. When I have this set in my code, after inserting a few elements and then deleting all of them I find that my final array has a capacity of 2 and not the starting capacity of 1. However, if I shrink the array whenever the size if less than *or equal to* the capacity, I find that the resulting dynamic array has the starting capacity of 1.

So, should the dynamic array’s capacity be cut in half when the size is LESS THAN or LESS THAN OR EQUAL TO?

Subject: Re: DArray shrink: < or <= ?
Posted by SSinischo on Mon, 20 Mar 2017 15:29:43 GMT

The specs say "less than 25% of the capacity".

So my guess would be less than 25% of the capacity. :)

Subject: Re: DArray shrink: < or <= ?
Posted by lusth on Mon, 20 Mar 2017 17:56:40 GMT

strictly less than

Subject: Re: DArray shrink: < or <= ?
Posted by jtevans3 on Mon, 27 Mar 2017 22:54:20 GMT

How does the array shrink as its size gets to zero? Obviously it shrinks from 8 to 4 when 1 element remains, but then I how far should it shrink when no elements are left?

Subject: Re: DArray shrink: < or <= ?
Posted by lusth on Tue, 28 Mar 2017 12:06:10 GMT

It should shrink to 2, since zero is less than 25% of 4.