My code apparently failed Test #5 but there is no hint as to why.

The e-mail shows the test that was run up to the line "repeated 10000 times: insertDLL(a,X,v); and then on the next line simply says "the test did not succeed; it timed out" and nothing more. It then goes on to Test #6.

I at first assumed my dll object was to slow on inserts, but then I remembered that this is my same dll file from Assignment 0 which was fine. I tried testing on my own system for the speed of my dll file and by doing a similar test but instead of X (as I did not know what that meant), I used the midpoint of the list for the last 10,000 inserts as that has to be as bad as what it was tested on. It finished every time in under a second.

The timeout listed for Test #5 is 3 seconds if I'm reading correctly which I am well under. Could there be another issue? I'm not sure how to fix my code while unsure what the problem actually was.

Subject: Re: Test #5 Failing for Unknown Reason
Posted by lusth on Wed, 22 Feb 2017 21:36:34 GMT

For both your insert and remove, do you walk from the back if the index is towards the back?

Subject: Re: Test #5 Failing for Unknown Reason
Posted by asvivian on Wed, 22 Feb 2017 23:23:50 GMT

I do.

Subject: Re: Test #5 Failing for Unknown Reason
Posted by lusth on Fri, 24 Feb 2017 15:22:39 GMT

Are you sure, for both insert *and* remove?

Subject: Re: Test #5 Failing for Unknown Reason
Posted by asvivian on Fri, 24 Feb 2017 22:25:53 GMT
After looking a little more closely at my code, it would seem the remove function did not implement deletion properly from the back-end. Was that something being tested in Test #5? If so, that was most likely the reason for the time out.

Subject: Re: Test #5 Failing for Unknown Reason
Posted by georgecoll on Mon, 27 Feb 2017 19:33:59 GMT

I understand that walking from the back reduces time but how is walking from the front not also the same time constraints? If you know the distance from the back you also know distance from the front correct? Still Theta(1)?

Subject: Re: Test #5 Failing for Unknown Reason
Posted by lusth on Mon, 27 Feb 2017 20:20:07 GMT

^ The difference is, say, 5 from the back is n-5 from the front. One of those numbers is a constant, while the other is not.