Whenever I test my code with the test dropbox, I run all the tests fine except the last one, where my binomial module gets tested with alternate code. For whatever reason I keep getting this message:

*** Error in `./dijkstra': malloc(): memory corruption: 0x000000000080e550 ***

Subsequently I fail the test. I can't find for the life of me where in binomial this is causing me to trip up the alternate code, and I've followed the pseudocode provided as closely as possible. This only ever happens with alternate code.

EDIT: the problem appears to be in combine. No longer getting corrupted memory, but still getting segfault on test 3. I believe it fails on a call to setDArray in Combine. After a successful call it should print, but instead that's where I get the segfault. Here is the error message:

TEST #3
dijkstra ../g2

timeout: the monitored command dumped core
./file-tester: line 67: 22135 Segmentation fault
timeout $alloted ./$* $input > yours
IN NEW BINOMIAL
SUCCESSFULLY ALLOCATED MEMORY
IN INSERT BINOMIAL
IN NEWBINOMIALNODE
SUCCESSFULLY ALLOCATED MEMORY
IN CONSOLIDATE
SIZE OF B's ROOTLIST: 0
IN INSERT BINOMIAL
IN NEWBINOMIALNODE
SUCCESSFULLY ALLOCATED MEMORY
IN CONSOLIDATE
SIZE OF B’s ROOTLIST: 1
SIZE OF B’s ROOLIST (IN LOOP): 1
IN COMBINE
N1 ptr: 0xb464e0      N2 ptr: 0xb46550
N1 ptr val: 0xb467b0      N2 ptr val: 0xb46cf0
Comparison ended with n1->value more extreme. setting n2->value as child
SetDArray successful
SIZE OF B’s ROOLIST (IN LOOP): 1
IN COMBINE
N1 ptr: 0x7f0592cd2b78      N2 ptr: 0xb464e0
N1 ptr val: 0xb48cd0      N2 ptr val: 0xb467b0
Comparison ended with n1->value more extreme. setting n2->value as child
the test did not succeed, failing at this point

Subject: Re: Memory Corruption When Testing With Alternate Code
Posted by jarobinson3 on Sat, 01 Apr 2017 23:44:19 GMT
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I am not sure. Maybe when you update the child the node is null or the darray is null.

Subject: Re: Memory Corruption When Testing With Alternate Code
Posted by 1337Programmer on Sun, 02 Apr 2017 01:03:01 GMT
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I fixed it finally! For some reason my while loop conditional in Consolidate wasn't catching everything it needed to. By putting in a conditional at the end of the while loop to test if degree was equal to rootlist size, I was able to completely resolve the issue.