Subject: Have a Malloc.c Error  
Posted by adanderson8 on Tue, 21 Mar 2017 16:33:05 GMT  
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So I have rerun my code against all the test cases and everything works exactly how it is supposed to, except for test 14 where at line 206 of s14.0 with the phrase "al3nRQ .drPH\"J3LBq" causes my program to throw this error.

bstrees: malloc.c:2372: sysmalloc: Assertion `(old_top == (((mbinptr) (((char *) &((av)->bins[(1) - 1] * 2))) - __builtin_offsetof (struct malloc_chunk, fd)))) && old_size == 0) || ((unsigned long) (old_size) >= (unsigned long)(((__builtin_offsetof (struct malloc_chunk, fd_nextsize))+((2 *(sizeof(size_t))) - 1)) & ~((2 *(sizeof(size_t))) - 1))) && ((old_top)->size & 0x1) && ((unsigned long) old_end & pagemask) == 0)' failed.  
Aborted

I have isolated the error to this line of my cleanup routine that checks for whitespace:
else if(*i == ' ' || *i == '	' || *i == '
')

The exact problems comes from the *i == '	' part. If this is switched to 9 (the ascii value for tab) then the same error occurs. If this is switched to ' ' (a tab placed in the single quotes) then the problem goes away but I get a compiler warning that the grader will not like.

Any ideas on what I should do to even start trying to fix this? If I remove the " " checker all together then the program runs, but of course it won't run correctly. I have tried running this through valgrind but without having freed memory this error is lost in a sea of other errors.

Subject: Re: Have a Malloc.c Error  
Posted by cdyancey on Tue, 21 Mar 2017 17:33:48 GMT  
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try
isspace(i)
It will test for all whitespace characters at the same time and perhaps will not throw this error

Subject: Re: Have a Malloc.c Error  
Posted by lusth on Tue, 21 Mar 2017 21:13:43 GMT  
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It really looks like you're running off the string. You should print the value of i to see that it hasn't exceeded the length of the string.

Subject: Re: Have a Malloc.c Error  
Posted by adanderson8 on Tue, 21 Mar 2017 23:51:39 GMT  
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So after 4 more hours of troubleshooting I have actually isolated the issue to inside `readString(fp)` at the end of my reading loop. It only happens for this test case too. It handles all the rest of them fine. I've checked it line by line by running through gdb and it fails after everything is inserted and when it is reading the next line. I also checked and my string doesn't seem like it has exceeded the length...

Btw, its line 159 on the scanner. The line throwing the error is `buffer = allocateMsg(size,"readString");`

Subject: Re: Have a Malloc.c Error
Posted by adanderson8 on Wed, 22 Mar 2017 00:12:42 GMT
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Nevermind. I looked and it turns out my result wasn't allocated correctly. It indeed was only running off, but for some reason it only failed that test case. Thanks