9/17/15 Pre-Class Work

* Required

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Please indicate which course you are taking. *

○ CS61 (College)

○ CSCIE-61 (Extension)

Garbage Collection

C is not a garbage collected language so if programs do not call free explicitly there is no way that memory can be reclaimed. *

○ True

☑ False

Check all the things below that make our garbage collector conservative. *

☑ If you have variables on your stack that contain values that look like pointers into malloc'd regions, those regions will get marked in-use.

☐ If you have global variables that contain values that look like pointers into malloc'd regions, those regions will get marked in-use.

☑ If you have values in malloc'd regions that look like pointers into malloc'd regions, those regions will get marked in-use.

☐ It doesn't run very often.

Which of the following is not a shortcoming of the collector discussed in the video? *

☐ It might mark regions in-use that are not actually in-use.

☑ It might free things that it shouldn't.

☐ It isn't being called all the times it should.

☐ It's not terribly efficient at searching whether a value is part of a malloc'd region.

☑ It requires a great deal of code.

☐ It probably looks up NULL in the malloc'd regions a lot.

Were you surprised by how the amount of code it took to implement the garbage collector? *

☑ Yes

○ No

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