Name _____SOLUTIONS_____

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Monday, October 26

6.818 Fall 2020   Miniquiz #18   5 Minutes

1. What assumptions do generational collectors make about the program (mutator)?

    Generational collectors assume that objects allocated by the program have a high infant mortality
    rate (i.e., a large fraction of objects is short-lived while a smaller fraction of objects is long-lived).

2. How do generational collectors improve on copying collectors?

    Generational collectors reduce the time spent on garbage collection by seldomly collecting long-
    lived object and using copying collection on short-lived objects, which are likely to not incur
    copying costs (since only reachable objects need to be copied).