

There were three versions of the exam. Any typos were taken into account in grading as described below. Again, they are named after the comics (from xkcd.com) that were on the front:

- [Sudoku](#)
- [Pointers](#)
- [Segfault](#)

Here are the notes about grading:

- The total of the points on the front of the exam is actually 69; as a result, everyone effectively got a free point (yay!) to bring the total to 70. It ended up being factored in for Q7, where there was an option that appeared twice.
- Q1-3 and Q6 used negative relative indexing in loads and stores. This is perfectly allowed in ARM, but a Piazza answer from the staff mistakenly said that it wasn't, and cited the wrong part of a specification to support it. As a result, I gave most or all credit for answers that interpreted negative indices as invalid (this affected a handful of students).
- For Q7, there is a line in the book that says that `lr` needs to be preserved, while `gcc` doesn't do this. In fairness to the conflicting sources, I awarded credit for picking either way on that option. If you think through the reasons for the various parts of the calling convention, either way *ought* to work, since `lr` is only used directly by leaf callees.
- Q11 conflicted on the use of `nums` and `m` in the answers and question, so full credit was awarded for "BAD QUESTION", none of the above, or the intended answer (`nums[2]`)

The mean is ~59, the median ~60, and the stdev is ~8. ~350 students took the exam (no one got over 70; the rightmost column is just the 6 scores equal to 70).

