

CMDA 3634

Lab 03 Report

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Part A

1. Use the `listings` package to include your output (`output_pt.a.txt`) in your pdf. You will need to copy `output_pt.a.txt` to the reports directory.

ANSWER:

```
Test 0: Pass
Test 1: Pass
Test 2: Pass
Test 3: Pass
Test 4: Pass
Test 5: Pass
Test 6: Pass
Test 7: Pass
All Tests: Pass
```

2. The `axpy` routine no longer uses the return value, as the return variable is an argument to the function. How can we make use of the function return value to get some use out of it?

ANSWER: We can return an error code, indicating success or failure. We could also return a reference to the return value, allowing the routine to be used as an argument to another function, but this could have some unintended side-effects.

3. For these routines, give one reason why we might choose to pass only the structures by pointer and not the scalar values?

ANSWER: We are not modifying the values in the scalar arguments. Also, they are small so creating copies of them does not impose excessive overhead.

4. Other than the instructor or TAs, who did you receive assistance from on this assignment?

ANSWER: No one.