

**Feature Number:** 2

**Feature Name:** Virtual Machine

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**Tester:** Peter Giovi

**Test Status:** Incomplete

- **Virtual Machine Class**

- **GiveFilepath Test Suite:**

- i. **Pass a valid filename** - A valid filename is passed in. The test will pass if it successfully opens the file.
    - ii. **Pass an invalid filename** - An invalid filename is passed in. The test will pass if it does not open the file and tells the user that the file is invalid
    - iii. **Pass a file with valid instructions** - The instructions will be read in and stored. The test will pass if all instructions are read successfully.
    - iv. **Pass a file with invalid instructions** - The instructions will be read in, and bad instructions will generate an error . These invalid instructions will not be saved into the array. The test will pass if all invalid instructions generate errors.
    - v. **Pass a file with no instructions** - The file will be passed in. The test will pass if an error is returned.

- **GetInstruction Test Suite:**

- i. **Pass valid data** - Valid data is passed into the function. The test will pass if data is read successfully.
    - ii. **Pass invalid data** - Invalid data is passed into the function. The test will pass if an error is generated.
    - iii. **Proper Instruction Output** - A set of instructions are read in. The test passes if output matches anticipated output.