January 15 2021 | Surya Keswani | Output for HW1 ARITH | CSE210A

```
Surva@Survas-MBP cse210A-asgtest-hw1-arith % git status
 On branch version3
 Your branch is up to date with 'origin/version3'.
 nothing to commit, working tree clean
 Surya@Suryas-MBP cse210A-asgtest-hwl-arith % ./test.sh ./test.sh: line 1: !/usr/bin/env: No such file or directory
 pip install pyinstaller
  Requirement already satisfied: pyinstaller in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages (4.2)
Requirement already satisfied: setuptools in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages (from pyinstaller) (49.6.0)

Requirement already satisfied: setuptools in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages (from pyinstaller) (2020.11)

Requirement already satisfied: altgraph in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages (from pyinstaller) (2020.11)

Requirement already satisfied: altgraph in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages (from pyinstaller) (2020.11)
 Requirement already satisfied: macholib=1.8 in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages (from pyinstaller) (1.14)
Requirement already satisfied: importlib-metadata in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages (from pyinstaller) (1.2.0)
Requirement already satisfied: zipp>=0.5 in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages (from importlib-metadata->pyinstaller) (0.6.0)
Requirement already satisfied: more-itertools in /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages (from zipp>=0.5->importlib-metadata->pyinstaller) (8.0.1)
 pyinstaller -- onefile arith.py
  36 INFO: PyInstaller: 4.2
 36 INFO: Python: 3.7.4
 41 INFO: Platform: Darwin-20.2.0-x86_64-i386-64bit
 42 INFO: wrote /Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hw1-arith/arith.spec
 46 INFO: UPX is not available.
 47 INFO: Extending PYTHONPATH with paths
   ['/Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hw1-arith', '/Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hw1-arith']
 58 INFO: checking Analysis
58 INFO: Building Analysis because Analysis—00.toc is non existent
59 INFO: Initializing module dependency graph...
61 INFO: Caching module graph hooks...
 64 WARNING: Several hooks defined for module 'win32ctypes.core'. Please take care they do not conflict.
66 INFO: Analyzing base library.zip ...
2508 INFO: Caching module dependency graph...
2576 INFO: running Analysis Analysis-00.toc
 2579 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/bin/python3.7)
 2582 ERROR: Can not find path /System/Library/Frameworks/CoreFoundation.framework/Versions/A/CoreFoundation (needed by /Library/Frameworks/Python.framework/Versions/3.7/Python)
 2582 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/Python)
 2582 INFO: Analyzing /Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hw1-arith/arith.py
 2588 INFO: Processing module hooks...
2588 INFO: Loading module hook 'hook-encodings.py' from '/Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages/PyInstaller/hooks'...
2636 INFO: Loading module hook 'hook-pickle.py' from '/Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages/PyInstaller/hooks'...
2637 INFO: Excluding import of argparse from module hook 'hook-heapq.py' from '/Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages/PyInstaller/hooks'...
2638 INFO: Excluding import of doctest from module heapq
2638 INFO: Loading module hook 'hook-difflib.py' from '/Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages/PyInstaller/hooks'...
2638 INFO: Excluding import of doctest from module difflib
2638 INFO: Excluding import of doctest from module difflib
2638 INFO: Loading module hook 'hook-xml.py' from '/Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages/PyInstaller/hooks'...
2638 INFO: Loading module hook 'hook-xml.py' from '/Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages/PyInstaller/hooks'...
 2838 INFO: Looking for ctypes DLLs
 2838 INFO: Analyzing run-time hooks ...
 2843 INFO: Looking for dynamic libraries
 2845 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/math.cpython-37m-darwin.so)
 2846 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/select.cpython-37m-darwin.so)
2847 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_posixsubprocess.cpython-37m-darwin.so)
2848 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_datetime.cpython-37m-darwin.so)
 2849 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_struct.cpython-37m-darwin.so)
2849 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_struct.cpython-37m-darwin.so)
2852 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_heapq.cpython-37m-darwin.so)
2852 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_heapq.cpython-37m-darwin.so)
2853 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_socket.cpython-37m-darwin.so)
2855 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/pinascii.cpython-37m-darwin.so)
2870 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/grp.cpython-37m-darwin.so)
2871 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_lzma.cpython-37m-darwin.so)
2872 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_lzma.cpython-37m-darwin.so)
2873 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_bz2.cpython-37m-darwin.so)
2873 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_bz2.cpython-37m-darwin.so)
2873 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_bz2.cpython-37m-darwin.so)
 2873 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/zlib.cpython-37m-darwin.so)
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January 15 2021 | Surya Keswani | Output for HW1 ARITH | CSE210A

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2875 ERROR: Can not find path /usr/lib/lib/system.B.dyllb (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_bisect.cpython-37m-darwin.so)
2876 ERROR: Can not find path /usr/lib/lib/system.B.dyllb (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_bisect.cpython-37m-darwin.so)
2876 ERROR: Can not find path /usr/lib/lib/system.B.dyllb (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_bisect.cpython-37m-darwin.so)
2886 ERROR: Can not find path /usr/lib/lib/system.B.dyllb (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_bisect.cpython-37m-darwin.so)
2886 ERROR: Can not find path /usr/lib/lib/system.B.dyllb (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_bisect.cpython-37m-darwin.so)
2886 ERROR: Can not find path /usr/lib/lib/system.B.dyllb (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_bisect.cpython-37m-darwin.so)
2886 ERROR: Can not find path /usr/lib/lib/system.B.dyllb (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_bisect.cpython-37m-darwin.so)
2886 ERROR: Can not find path /usr/lib/lib/system.B.dyllb (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/_set.cpython-37m-darwin.so)
2886 ERROR: Can not find path /usr/lib/lib/system.B.dyllb (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/set.cpython-37m-darwin.so)
2889 ERROR: Can not find path /usr/lib/lib/system.B.dyllb (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/lib-dynload/set.cpython-37m-darwin.so)
2898 ERROR: Can not find path /usr/lib/lib/system.B.dyllb (needed by /Library/Frameworks/Python.frameworks/Python.frameworks/Python.frameworks/Python.frameworks/Python.frameworks/Python.frameworks/Python.frameworks/Python.frameworks/Python.frameworks/Python.frameworks/Python.frameworks/Python.fra
       2924 INFO: Looking for eggs
2924 INFO: Using Python library /Library/Frameworks/Python.framework/Versions/3.7/Python
2925 INFO: Warnings written to /Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hwl-arith/build/arith/warn-arith.txt
2952 INFO: Graph cross-reference written to /Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hwl-arith/build/arith/warn-arith.txt
2952 INFO: checking PYZ
         2958 INFO: Building PYZ because PYZ-00.toc is non existent
2958 INFO: Building PYZ (ZlibArchive) /Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hwl-arith/build/arith/PYZ-00.pyz
3208 INFO: Building PYZ (ZlibArchive) /Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hwl-arith/build/arith/PYZ-00.pyz completed successfully.
       Jamp: blucking PK2 (ZilbArchive) /Users/Surya/Desktop/Cse210A-asglesi-old/Cse210A-asglesi-nwi-arin/puild/arin/P12-00.pyz Completed su 3211 INFO: checking PKG because PKG-00.toc is non existent 3211 INFO: Building PKG (Carchive) PKG-00.pkg 3215 INFO: Building PKG (Carchive) PKG-00.pkg 3555 ERROR: Can not find path /usr/lib/lib/system.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/bin/python3.7) 5103 INFO: Building PKG (Carchive) PKG-00.pkg completed successfully. 5105 INFO: Bootloader /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages/PyInstaller/bootloader/Darwin-64bit/run state in the complete of 
         5105 INFO: checking EXE
5105 INFO: Building EXE because EXE-00.toc is non existent
5105 INFO: Building EXE from EXE-00.toc
         5105 INFO: Appending archive to EXE /Users/Surya/Desktop/cse210A—asgtest-old/cse210A—asgtest-hw1-arith/dist/arith 5108 INFO: Fixing EXE for code signing /Users/Surya/Desktop/cse210A—asgtest-old/cse210A—asgtest-hw1-arith/dist/arith 5110 INFO: Building EXE from EXE—00.toc completed successfully.
            mv dist/arith .
          rm arith.spec
          rm -r __pycache__ build dist
         /usr/bin/readlink: illegal option -- f usage: readlink [-n] [file ...]
                custom-2
custom-3
                  ✓ custom-5

✓ easy-1
✓ easy-2
                  ✓ easy-3
```

January 15 2021 | Surya Keswani | Output for HW1 ARITH | CSE210A

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2924 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/lib/libncursesw.5.dylib)
2924 INFO: Looking for eggs
2924 INFO: Using Python library /Library/Frameworks/Python.framework/Versions/3.7/Python
2925 INFO: Warnings written to /Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hw1-arith/build/arith/warn-arith.txt
2952 INFO: Graph cross-reference written to /Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hw1-arith/build/arith/xref-arith.html
2958 INFO: checking PYZ
2958 INFO: Building PYZ because PYZ-00.toc is non existent
2958 INFO: Building PYZ (ZlibArchive) /Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hw1-arith/build/arith/PYZ-00.pyz
3208 INFO: Building PYZ (ZlibArchive) /Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hw1-arith/build/arith/PYZ-00.pyz completed successfully.
3211 INFO: checking PKG
3211 INFO: Building PKG because PKG-00.toc is non existent
3211 INFO: Building PKG (CArchive) PKG-00.pkg
3555 ERROR: Can not find path /usr/lib/libSystem.B.dylib (needed by /Library/Frameworks/Python.framework/Versions/3.7/bin/python3.7)
5103 INFO: Building PKG (CArchive) PKG-00.pkg completed successfully.
5105 INFO: Bootloader /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages/PyInstaller/bootloader/Darwin-64bit/run
5105 INFO: checking EXE
5105 INFO: Building EXE because EXE-00.toc is non existent
5105 INFO: Building EXE from EXE-00.toc
5105 INFO: Appending archive to EXE /Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hw1-arith/dist/arith
5108 INFO: Fixing EXE for code signing /Users/Surya/Desktop/cse210A-asgtest-old/cse210A-asgtest-hw1-arith/dist/arith
5110 INFO: Building EXE from EXE-00.toc completed successfully.
mv dist/arith .
rm arith.spec
rm -r __pycache__ build dist
/usr/bin/readlink: illegal option -- f
usage: readlink [-n] [file ...]
 ✓ custom-1

✓ custom-2

✓ custom-3

 ✓ custom-4
 ✓ custom-5

✓ easy-1

✓ easy-2

✓ easy-3

✓ easy-4

✓ easy-5

✓ easy-6

✓ easy-7

✓ easy-8

✓ easy-9

✓ easy-10

✓ easy-11

 ✓ easy-12

✓ easy-13

 ✓ easy-14
 ✓ easy-15
 ✓ easy-16
 ✓ easy-17

✓ easy-18

✓ easy-19

 ✓ easy-20
 ✓ medium-1
 ✓ medium-2
 ✓ medium-3
 ✓ medium-4
 ✓ medium-5
 ✓ medium-6
 ✓ medium-7
 ✓ medium-8
 ✓ medium-9
 ✓ medium-10
35 tests, 0 failures
Surva@Survas-MBP cse210A-asgtest-hw1-arith %
```