

111A Introduction to Computer and Computer Science

Homework Assignment #6

Due: 11/14 12:00:00

In this homework assignment, we have an import error in the given module.

Problem #1: Circular import

By executing `main_hw6.py`, an `ImportError` occurs with “most likely due to a circular import” as shown in the following figure. Please fix it **WITHOUT** merging module a.py and module b.py, deleting modules or changing the utility of functions.

```
(nycudopcs) O:\Personal_GitHub\Homeworks_111A\Homeworks\HW6>python main_hw6.py
Traceback (most recent call last):
  File "main_hw6.py", line 1, in <module>
    from module_a import func_a
  File "O:\Personal_GitHub\Homeworks_111A\Homeworks\HW6\module_a.py", line 1, in <module>
    from module_b import func_b1
  File "O:\Personal_GitHub\Homeworks_111A\Homeworks\HW6\module_b.py", line 1, in <module>
    from module_a import func_a
ImportError: cannot import name 'func_a' from partially initialized module 'module_a' (most likely due to a circular import)
(O:\Personal_GitHub\Homeworks_111A\Homeworks\HW6\module_a.py)
```

Hand in procedure:

As we had mentioned in the lecture, you should list all your collaborators in your programs. Here is the template:

```
""  
Created on Sun Aug 7 01:23:45 2022  
  
@author: Xi Winnie, student ID  
  
@collaborators: Jane Doe, her student ID  
                John Doe, his student ID  
""
```

Please save your module as a “.zip”, “.7z”, or “.rar” file, where the file name should follow this format:

111A_hw#6_ID.zip
111A_hw#6_ID.7z
111A_hw#6_ID.rar

For example,

111A_hw#6_0123456789.rar

Please be aware. **We are not going to accept any homework file with wrong file name or without signature.** Please double check the content of your file.

Once you have accomplished your works, you can upload your homework to the “E3@NYCU” system. There will be a section for uploading your homework.