Exercise in Python: **Given the following problem and solution, write a test program, with test cases that you come up with  
on your own to verify the solution. Gather and log success and timing info for each individual test case run both to  
the console and to a unique file.**

**Use at least 10-15!! test cases**

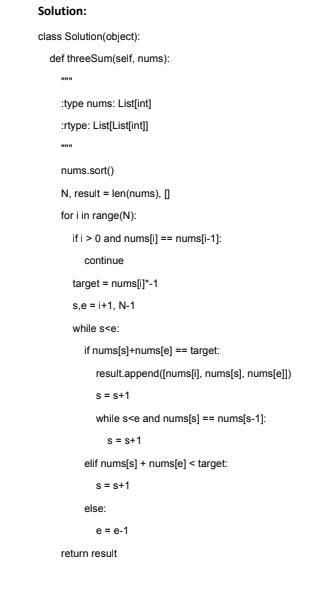
**expected output:**

Test Case #1: SUCCESS, 11ms.  
Test Case #2: FAILURE, 20ms

***IMPORTANT!!!!Please explain what you doing /measuring in every test case and every step, add comments to see the logic***

-------------

Problem: Given an array nums of n integers, are there elements a, b, c in nums such that a + b + c = 0? Find all  
unique triplets in the array which gives the sum of zero. The solution set must not contain duplicate triplets.



The solution is expected to be functional (bonus points if you find any bugs).