BABCOCK UNIVERSITY
ILISHAN-REMO
SCHOOL OF COMPUTING SCIENCE AND ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE
MIDSEMESTER EXAMINATION, FIRST SEMESTER 2016/2017
COSC 101: Introduction to Programming in C   **EXAMINER**: Mrs Bola Akande   **Total Marks**: 15marks
Time Allowed: 45 minutes (CS/CIS) Answer all questions

a. Using problem solving techniques analyse the problem in question c below indicating
   - i.   Input data   ii. Output data
   - ii.   iii. Processing requirement
b. Draw the flowchart of the following problem in question c below.
c. The Federal Ministry of Education wants to statistically determine the best age a student can be admitted into higher institution of learning. Thus, the minister wants to develop a simple application that can take in the age of each student siting for Unified Tertiary Matriculation Examination. If the total number of candidates is 30000, develop the application using C language. The program should be able to do the followings:
   - i.   Take in the ages of 30000 candidates
   - ii.   Find the sum of their ages
   - iii.   Find the average age
   - iv.   Output the sum and the average age