

CG2007 Microprocessor Systems
Dept of ECE, NUS Singapore
(AY 2010/2011 Semester II)

Deadline for submission – ~~February 11, 2011~~
February 18, 2011

Mini Project – 1

This is an **individual** project. Read the following description of the problem statement carefully.

Consider a set of pre-stored **1-byte positive** integer elements in an array. Do the following.

1. Count the number of elements in your array and display them;
2. Identify and display all numbers **less than** a specific threshold number (you can set this threshold as you wish). If there are none, display a message;
3. Identify EVEN numbers, count them and compute their **average**. Display your result;
4. Identify all ***prime numbers*** in your array and display them;

Requirements:

1. Entire code should be properly documented; Description of variables used must be explicitly shown;

2. Clearly identify the Data Segment and Code Segment portions;
3. Each sub-problem above should be identified separately and your displayed results must have sufficient clarity;
4. Test your code with a variety of data sets, threshold values, etc.
5. Deadline for submission – **February 18, 2011**; - Email your **SOFT COPY** report to your respective GAs / Lab Demonstrators; Clearly print your code and the results in a systematic fashion; Print your results for each data set you had assumed;

Note: If required, you may be called to demonstrate your code by running and performing the experiments. Copying should be **strictly** avoided. If any report is found copied, then the candidate must face the disciplinary action from the Dept/University.