**Assembly Language (A&E)**

**Fall 2015**

**Assignment-3**

**Submission: Friday 2nd October, 2015**

Note: create subroutines, wherever needed.

**Question 1:**

DONE:Write a subroutine that performs “reverse in range” on an integer array. The address of array, its size and range (as integer values) are passed as parameters to the subroutine. For example, if the *lower value* of the range is 3 and *higher* is 7 then the array 2,6,8,4,1,13,7,5 after this operation becomes 2,5,8,7,1,13,4,6.

**Question 2:**

DONE:Write a program that compares two arrays and returns 1 if array2 exists in array1. Note that array1, size1, array2 and size2 are the variables defined in memory.

For example:

Array1={1,1,2,3,4,4,5}

&

array2={3,4} then return 1

but if

array2={4,4,4,5} then return 0

(don’t assume that size of array 2 will always be less than size of array 1.)

Think about the parameters?

**Question 3:**

**DONE:**

Calculate the following geometric series where *a*, *l* and *r* are variables defined in memory. You have to calculate *rn* using a nested loop, in a subroutine (no mul instruction). The other multiplication *arn* will be done using mul.