

Due Date: December 12, 2011, 23:55 (submit online at COW)

**CENG 707
Fall 2011-2012**

**Assignment #4
Implementing Two Stacks**

This assignment is Exercise 3.24 from your textbook:

“ 3.24 Write routines to implement two stacks using only one array. Your stack routines should not declare an overflow unless every slot in the array is used.”

So, your goal in this assignment is to write the stack functions, push, pop, isEmpty for two stacks such as push1, push2, pop1, pop2, isEmpty1, isEmpty2. The two stacks should share the space on a single array. However, this does not mean that they share the same element on the array. The members of the individual stacks should be separate elements on the array. You can implement a stack of integers. Your main functions should test the functions you have implemented by calling these functions at least two times for both of the stacks.

Deliverables:

Your source code.

Submit your code at cow.ceng.metu.edu.tr using the links on the assignment page.