BİL 102 – Computer Programming
HW 06
Last Submission Date: April 9, 2014 – 09:00

Assume that you have a file with integers in each line. Write a function that reads current line into an array and returns the array.

Write a function that finds the longest subsequence between two occurrences of a given number in a given array. The function will return the start and end indexes of the subsequence.

Write a function that reads arrays (in seperate lines in the file) from a given file and finds the longest subsequence between two recurrences of a given number in all of the arrays. The function will return the start and end indexes of the longest of the longest subsequences.

Your program will read numbers from "**numbers.txt**" and for each of the numbers the program will find the longest subsequence in "**arrays.txt**". Then the program will write start and end indexes of the longest of the longest subsequences of each number to "**longests.txt**".

NOTES:
***Do not change the file names given above.**
***Each line of "arrays.txt" will be considered as an array.**
***Assume that an array's size can be max 100.**

EXAMPLE:

arrays.txt
1 5 6 7 10 28 5 9 4 3
2 3 5 6 7 8 2 3 21 5 33 5

numbers.txt
5
2

longests.txt
2 11
0 6

General:

1. Obey honor code principles.
2. **Read your homework <u>carefully</u>** and follow the directives about the I/O format (data file names, file formats, etc.) and submission format **<u>strictly</u>**. Violating any of these directives will be penalized.
3. Obey coding convention.
4. Do not forget to put the required **tags** in the main function.
5. Your submission should include the following file **<u>and NOTHING MORE</u>** (no data files, object files, etc):

   HW05_<StudentName>_<StudentSirname>_<student number>_part1.c
   HW05_<StudentName>_<StudentSirname>_<student number>_part2.c

   Do **NOT** compress the files you submit.
6. Do not use non-English characters in any part of your homework (in body, **file name**, etc.).
7. Deliver the printout of your work **until the last submission date**.