ANKARA UNIVERSITY
COM101 Summer 2020
MIDTERM

10/08/2020 10:00

Submission Deadline: 10/08/2020 14:00

1. (25p) Write a C program that sums a sequence of integers. Assume that the first integer read with scanf, specifies the number of values to be entered. Your program should read only one value each time scanf is executed. A typical input sequence might be

5 100 200 300 400 500
where 5 indicates that the subsequent five values are to be summed.

Sample Input:	Sample Output:
5 100 200 300 400 500	1500

For additional samples, please look at the input/output files.
Submission: Name your source file as <StudentID>.c. For example, if your ID is 112603, then you will submit 112603.c file.

2. (25p) Write a recursive **findSum** function which returns the sum of all integers between (and including) two integers given as parametrs. Write a C program that tests function **findSum**. (Your function must be **recursive**.)
(Examples: findSum(13, 47) returns 1050, findSum(-2, 89) returns 4002)

Sample Input 1:	Sample Output 1:
13 47	1050

For additional samples, please look at the input/output files.
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3. (25p) Write a C program that prints the following pattern using given input. All asterisks (*) should be printed by a single printf statement of the form printf("*").

Sample Input:	Sample Output:
| 5 | ```
        ***
      *******
    ***********
   ***************
*******************
****   *******   ****
***     *****     ***
**       ***       **
*         *         *
``` |

For additional samples, please look at the input/output files.
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4. (25p) Write a C program that reads two three-digit integers and then displays their product in the following format.

Sample Input:	Sample Output:

652
436
	``
	            652
	x 436
	--------------- 	
	           3912
	           1956
	           2608
	--------------- 	
	         284272
	``

For additional samples, please look at the input/output files.

Submission: Name your source file as <StudentID>.c. For example, if your ID is 112603, then you will submit 112603.c file.