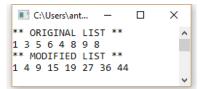
## I2204 - INFO 216 Imperative Programming Lab Exam Group I #1

Full name	e: File number:
	Check the website 192.168.0.1 Use the following username: info and password info. Open folder Student then open folder i2204 Group1 English.
	You should code your answer in the file named i2204-1.c contained in the supplementary folder i2204#1.
	Rename the file i2204-1.c as follows: XXXXX.c, where XXXXX designate your file number.  Put the renamed file under the 4: directory in a new folder named i2204.

You should write on this sheet only the required function, not the whole solution.

Modify a given simply linked list in such a way that each node contains the sum of the data up to and including the current node.



# I2204 - INFO 216 Imperative Programming Lab Exam Group I #2

Full name	File number:		
	Check the website 192.168.0.1 Use the following username: info and password info. Open folder Student then open folder i2204 Group1 English.		
	You should code your answer in the file named i2204-2.c contained in the supplementary folder i2204#2.		
	Rename the file i2204-2.c as follows: XXXXX.c, where XXXXX designate your file number.		
	Put the renamed file under the d: directory in a new folder named i2204.		
	You should write on this sheet only the required function, not the whole solution.		

Given an non-negative integer, create a simply linked list of integers between 0 and 9 representing the integer. (0 is represented by an empty list.)

	C:\Users\antoun\desktop\documents\visual studio 2017\Proj, —	$\times$
The	number 145560494 is represented by the following list:	^
1 4	5 5 6 0 4 9 4	
		v

### I2204 - INFO 216 Imperative Programming Lab Exam Group I #3

Check the website 192.168.0.1 Use the following username: info and password info. Open folder Student then open folder i2204 Group1 English.

You should code your answer in the file named i2204-3.c contained in the supplementary folder i2204#3.

Rename the file i2204-3.c as follows: XXXXX.c, where XXXXX designate your file number.

Put the renamed file under the d: directory in a new folder named i2204.

You should write on this sheet only the required function, not the whole solution.

Write a function splice where the result is a list with the same items as the two input lists with the items from the second input inserted after the k-th node of the first, where k is another input. Ignore the case where  $k \le 0$ . If  $k \ge n$ , ( where n is the length of the first list), the items of the second list appear after the first. If either list is empty, the result is (a copy of) the other list.

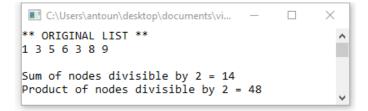


## I2204 - INFO 216 Imperative Programming Lab Exam Group I #4

Full name	e: File number:	
	Check the website 192.168.0.1 Use the following username: info and password info. Open folder Student then open folder i2204 Group1 English.	
	You should code your answer in the file named i2204-4.c contained in the supplementary folder i2204#4.	
	Rename the file i2204-4.c as follows: XXXXX.c, where XXXXX designate your file number.	
	Put the renamed file under the d: directory in a new folder named i2204.	

You should write on this sheet only the required function, not the whole solution.

Given a circular linked list, write a function that calculates the sum and the product of the nodes which are divisible by a number k.



Full name:

## I2204 - INFO 216 Imperative Programming Lab Exam Group I #5

Full name:	File number:	

Check the website 192.168.0.1 Use the following username: info and password info. Open folder Student then open folder i2204 Group1 English.

You should code your answer in the file named i2204-5.c contained in the supplementary folder i2204#5.

Rename the file i2204-5.c as follows: XXXXX.c, where XXXXX designate your file number.

Put the renamed file under the d: directory in a new folder named i2204.

You should write on this sheet only the required function, not the whole solution.

Given a linked list of integer. The task is to write a function that efficiently finds the second smallest element present in the linked list.

