

Computational Mathematics
Cinvestav Unidad Tamaulipas, Sep – Dec 2024
Dr. Mario Garza Fabre

Assignments 7 y 8
Deadline: 08/11/2024, 12:00

General specifications

- You will write **programs** that can find the answer/solution to specific questions/problems. Use the programming language of your choice.
- The **input of these programs** will be either 1 (or 2) integer(s) and will be provided as **argument(s) through the command line**.
- You will upload all of your programs to your Dropbox folder. For each program, you will create a **separate subfolder** where you will place the source code as well as a **Readme.txt** file providing instructions for compilation and execution (and any other relevant information).

Problems and Evaluation

The following table provides the list of problems (questions) that you need to solve, as well as some important notes and the value that each of these problems has for the evaluation of this assignment.

#	Question/Problem	Notes	Value
1	Julius Caesar's encryption and decryption procedures	Program that you will use in order to decrypt the text of the next questions. Please include also the program for the encryption procedure. Page 294 of Rosen's book.	2/3 of A7
2	MXQJ YI JXU Y-JX FHYCU DKCRUH?	YCFBUCUDJ JXYI QI IYCFBU QI OEK MQDJ, RKJ OEK IXEKB T XQLU Q BEEA QJ JXU IYULU EV UHQJEIJXUDUI.	1/3 of A7
3	MXQJ YI JXU FHYCU VQSJEHYPQJYED EV Q WYLUD DKCRUH D?	OEK CQO VYDT KIUVKB HUQTYDW JXU FHESUTKHU TUISHYRUT YD JXU BQIJ FQHQBWHQFX EV FQWU 258 EV JXU REEA RO HEIUD QDT YBBKIJHQJUT YD UNQCFBU 4 ED FQWU 259.	1/3 of A8
4	MXQJ YI JXU WHUQJUIJ SECCED TYLYIEH EV JME WYLUD DKCRUHI Q QDT R?	MXBYBU OEK SQD KIU QDO FHESUTKHU, JXU UKSBYTUQD QBWEHYJXC SQD RU QD YDJUHUIJYDW EFJYED (HEIUD'I REEA, FQWU 267).	1/3 of A8
5	MXQJ YI JXU BUQIJ SECCED CKBJYFBU EV JME WYLUD DKCRUHI Q QDT R?	OEK SEKBT IYCFBO SQBSKBQJU JXU BSC VHEC JXU WST, RKJ JXYI MYBB EDBO WYLU OEK XQBV EV JXU FEYDJI. JE WUJ QBB JXU FEYDJI, IEBLU KIYDW FHYCU VQSJEHYPQJYEDI.	1/3 of A8

JXU VYHIJ MXE IUDT CU QD UCQYB YDTYSQJYDW JXU SEHHUSJ LQBKU EV A JXQJ DUUTI JE RU KIUT VEH TUSHOFJYED MYBB UQHD 2 UNJHQ FEYDJI YD JXU VYDQB WHQTU. WEET BKSA!