

Mid term evaluation instructions

Reminder of the objective of this course

- People often learn about data structures out of context
- But in this course you will learn foundational concepts by building a real application with python and Flask

• To learn the ins and outs of the essential data structure, experiencing in practice has proved to be a much more powerful way to learn data structures

• The mid term evaluation is precisely to start playing with the data structure



Instructions for registering

- Form a group of two people and register on
- https://docs.google.com/spreadsheets/d/16AY8vnm69kuHfFu3RM4u3ZJI6dCm13UI2UUCMrCkgzM/edit?usp=sharing

Α	В	C v	D	E	F	G	Н	1
Mid ter	m exam Alg	orithmic an	d advance	d Programn	ning in Pytho	on - Novem	ber 10	
Time slot	start	end	Student 1	Student 2				
13h	0	9						
	10	19						
	20	29						
	30	39						
	40	49						
	50	59						
14h	0	9						
	10	19						
break	20	29	XXXXXX	XXXXX				
	30	39						
	40	49						
	50	50						



Instructions for preparing the mid term eval

- Download data on moodle on bitcoin
- Create a dynamic website using flask and fill the database with open high low closing data
- Create a plot in python to ensure data are properly loaded
- Give a date in a cell input and retrieve corresponding Open High low Close for that date using appropriate data structure to ensure fast loading
- Given two dates, load all closing prices for that date range and display the last nth element where n is small Choose the appropriate data structure to ensure fast execution
- Bonus: Given two dates, create a tree sort to rank all data and display the nth best



Instructions for the presentation

- Take 3 minutes to make a demo of the website on your laptop
- Explain your data structure decision in 2 mn without any slide!
- Leave 4 minutes for Question and answers
- Your instructor will warn you after 5 and 8 minutes
- Presentation stop after 9 minutes

• Send us after the presentation within a day your final code.



Some tips and advices

- Do not start at the last minute!
- If you have technical problems, liaise with the rest of the class and let us know who managed to help you!
- Work as a group and not individually!
- Test before the presentation that everything runs well on your computer to avoid blank presentation in the due day!
- And for exceptional projects, remember we reward you up to 20% of the final note.

