Advanced Algorithms and Parallel Programming 1st part (Advanced Algorithms)—January 14th 2022

Polimi ID		
Surname	Name	

- This is a closed-book examination. You cannot use computers, phones or laptops during the exam.
- Paper will be provided, but you should bring and use writing instruments that yield marks dark enough to be read easily. Erasable pens can be used.
- Total available time: 1h:00m.

Exercise	1	(6	points)	
Exercise	2	(5	points)	
Exercise	3	(5	points)	

Exercise n. 1	
Discuss why dynamic programming matter for Longest common subsequence algorithm.	

Exercise n. 2	
Describe how Karger and Stein algorithm works. Discuss and compare the two algorithms' complexity.	

Exercise n. 3
Explain the difference between Monte Carlo and Las Vegas Randomized based algorithms.