Advanced Algorithms and Parallel Programming 1st part (Advanced Algorithms)—September 7th 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			
Describe the Karger and Stein Min-Cut Algorithm. How is the complexity computed? Which is the randomization class the algorithm belongs to?	of	this	algorithm

Exercise n. 2Discuss an example of dynamic programming based algorithm. Which are the key features of an algorithm for being classified as a dynamic programming algorithm?

Exercise n. 3							
Describe how Treap split/union works.							