CS 3653 – Discrete Mathematics for Computer Science

PA – 4	Due – Nov 17, 2023, 11:59 pm (CST)
Chapter # 6 - 8	Max. Points # 50

SN	QUESTION	Pts
1	Write a program with the specified input and output. Take the value of n (>=2) and r (>=1) from the keyboard. (Based on CH-6).	20
	Given positive integers n and r, find the number of r-permutations when repetition is allowed and r-combinations when repetition is allowed of a set with n elements.	20
2	Write a program with the specified input and output. Take the value of n (>=2) and r (>=1) from the keyboard. (Based on CH-7).	
	Many lotteries award prizes to people who correctly choose a set of r numbers from the first n (>=r) positive integers. Find the probability that a person picks correct r numbers out of n.	20
3	Write a program with the specified input and output. Take the value of n (>=2) from the keyboard. (Based on CH-8).	10
	To solve the Tower of Hanoi problem with n disks using recursion.	

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