

United International University (UIU)

Dept. of Computer Science & Engineering (CSE) CSE 2218: Data Structure and Algorithms II Lab Final Exam (Set-A)

Any examinee found adopting unfair means will be expelled from the trimester/program as per UIU disciplinary rules.

Time: 1 hr 30 min

Section: J

Marks: 25

ID:

Problem 1: Write a program to generate all permutations of a given string using recursion.

[80]

Input: The only line of input contains a string.

Output: Print all possible permutations of the string.

Input	Output
ABC	ABC ACB BAC BCA CBA CAB
js	js sj
w	w

Problem 2: Write a program that takes X and Y as input and calculates the value of X^r using divide and conquer and prints it.

[80]

Input	Output
3 ,7	2187
5 9	1953125
1 11	1