

# Advanced Algorithms - Assignment 1

Name:

USN:

## Instructions:

- *This document must be submitted along with your implementation file.*
- *You are required to run at least 3 test cases with your implementation and fill in the tables given.*
- *You may add more columns in case you have run more test cases*
- *Reallocation threshold is the percentage of the array filled after which your implementation reallocates memory*
- *Deallocation threshold is the percentage of the array emptied after which your implementation deallocates memory.*
- *Vary the thresholds in the test cases and note the time taken for the basic operation*
- *The final section is optional and can be used if you would like to give the evaluators additional information about your assignment*

## 1) Dynamic Table with Structure Hacking

	Test Case 1	Test Case 2	Test Case 3
Reallocation Threshold			
Deallocation Threshold			
Number of times copy was called			
Total time			
Average time taken			

## 2) Dynamic Table without Structure Hacking

	Test Case 1	Test Case 2	Test Case 3
Reallocation Threshold			
Deallocation Threshold			
Number of times copy was called			
Total time			
Average time taken			

## 3) Splay Tree

	Test Case 1	Test Case 2	Test Case 3
Number of rotations			
Total time			
Average time taken			

## 4) Additional details: