UCT501 – Design and Analysis of Algorithms

Lab Assignment 1 and 2

1	Write a program to implement the following:
	   a) Find the frequency of occurrence one number in a data set.
	   b) Find the frequency of occurrence all the numbers present in a data set.

2	Implement a special type of stack in which two values will be inserted with one push operation and two values will be deleted with one pop operation. With one Push operation, top will be increased once and with one Pop operation, Top will be decreased only once.
3	Write a program to Implement Quick sort. Also analyze your program.

4	Write a program to implement the following:
	   a) Merging of two arrays containing sorted data.
	   b) Merge sort. Also analyze your program.