Answer Sheet for Problem 2 and Problem 4.

Problem 2

Asymptotic Analysis for List-based Dictionary

Operation	Worst case time cost	Average case time cost
clear	0(n)	Θ(n)
findByKey	0(n)	0(n)
findByValue	0(1)	θ(ι)
insertOneRecord	0(1)	9(1)
insertASetRecords	6(1)	9(1)
removeByKey	0(n)	0(n)
size	o(n)	⊘(n)

Asymptotic Analysis for Double List-based Dictionary

Problem 4

Operation	Worst case time cost	Average case time cost
clear	O(n)	0(n)
findByKey	0(n)	⊖(n)
findByValue	0(1)	9(1)
insertOneRecord	0(1)	Θ(1)
insertASetRecords	ð(1)	9(1)
removeByKey	0(ı)	٥(١)
size	0 (n)	0 (n)