

# PAMANTASAN NG LUNGSOD NG SAN PABLO

Brgy. San Jose, City of San Pablo



# COLLEGE OF COMPUTER STUDIES AND TECHNOLOGY Bachelor of Science in Information Technology

CC214 – Data Structures and Algorithm

Name:Program/Year/Section:	Date:
Quiz 4	I – Problem Solving 2!
<b>3 3 1</b>	following Collision Resolution Scheme.
	lash Function; then complete the Hash Tables below.
Show your solutions.	
Fist Bump! XDD	-~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Given:	
Hash Table Size = 15	

# A. Load Factor:

### **B. Hash Function:**

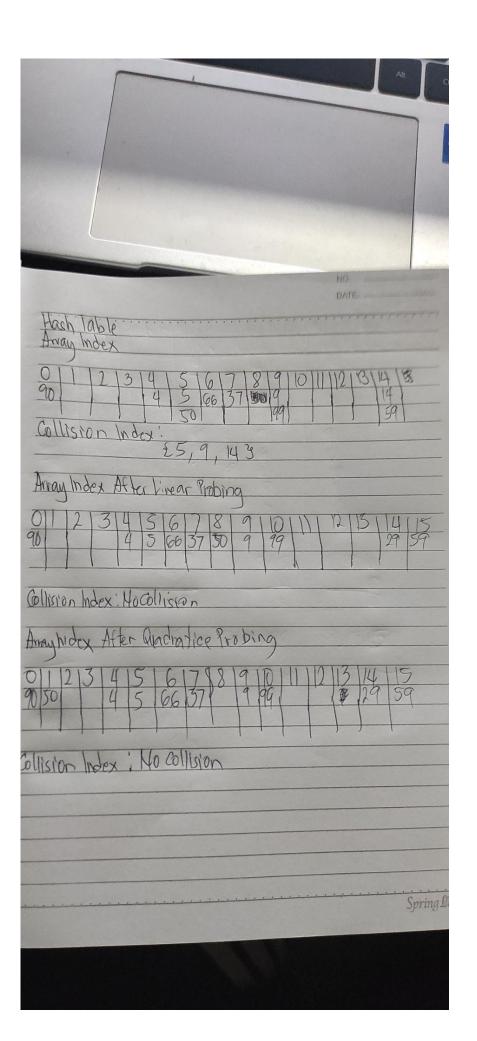
ID No.	Key	Hash	Array Index	Array Index (After Linear Probing)	Array Index (After Quadratic Probing)
1	29	29%15	14	14	14
2	37	37%15	7	7	7
3	5	5%15	5	5	5
4	4	4%15	4	4	4
5	9	9%15	9	9	9
6	66	66%15	6	6	6
7	99	99%15	9	10	10
8	50	50%15	5	8	1
9	90	90%15	0	0	0
10	59	59%15	14	15	15

## C. Hash Table:

- 1. Basic Hashing Indicate / show where the Collisions are (Index)
- 2. Linear Probing
- 3. Quadratic Probing

# I. Evidence:

			Baw an according	
Dno.   Key   1   20   2   37   3   5   4   4   4   5   9   7   9   8   50   10   10   10   10   10   10   10	Hash Array 124 37% 15 7 5 % 15 5 4 9% 15 99	5 4	111 7 5 4	30040
6 66 7 99 8 50 1 10 [0 57 Solution: 1. 15/29 - 15	4% 15 4 9% 15 99 9% 15 6 99% 15 9 50% 15 9 50% 15 14	3. 15/5 - Q 8	(b) 0 15 4 15/4 2-8	50
9. 15/90	6.15/66 - 40 - 6 - 6 - 45 - 45	7, 5/19	0,00	48 5
-	and the state of t			Spring



#### II. Format:

Word Processing Format

o Paper Size: Long (8.5 x 13)

o Font: Arial / 12

o Alignment: Justify

o Margin: Refer to this Document

o Line Spacing: 1.5

Handwritten Format

o Paper Size: Long

o Black Ink

o Print Writing not Cursive Writing

o Use Margin, Alignment, and Spacing Manually

### III. Rubrics and Criteria:

•	Compliance and Punctuality	5 Points
•	Organization and Format	10 Points
•	Quality of Work	20 Points
	Total:	35 Points

#### IV. File Name:

LastName\_ActivityTypeandCode\_Section
 Ex. Boongaling Assignment1 BSIT1A

### V. Submission:

Attach via Google Classroom set by your Course Instructor