Tecnológico de Monterrey

Act 5.1 - Individual implementation of operations on sets

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Programming of Data Structures and Fundamental Algorithms

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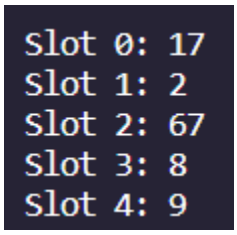
Graph Test Cases

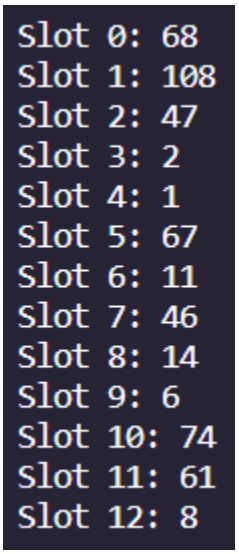
Hash tables verificación

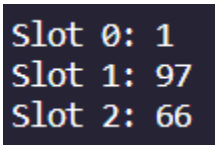
The test cases use different sizes and contents for each iteration, the size will be specified at the start of the case.

- **Quadratic Probing**

Núm. de caso	Valor ingresado	Valor esperado	Valor recibido

1	quadTable1:
	size = 4
	c1 = 5
	c2 = 7
	quadTable1.insert(67);
	quadTable1.insert(9);
	quadTable1.insert(17);
	quadTable1.insert(2);
	quadTable1.insert(8);
		Slot 0: 17
		Slot 1: 2
		Slot 2: 67
		Slot 3: 8
		Slot 4: 9
			

2	quadTable2:
	size = 13
	c1 = 17
	c2 = 31
	quadTable2.insert(6);
	quadTable2.insert(14);
	quadTable2.insert(68);
	quadTable2.insert(2);
	quadTable2.insert(67);
	quadTable2.insert(61);
	quadTable2.insert(47);
	quadTable2.insert(1);
	quadTable2.insert(108);
	quadTable2.insert(8);
	quadTable2.insert(74);
	quadTable2.insert(46);
	quadTable2.insert(11);
		Slot 0: 68
		Slot 1: 108
		Slot 2: 47
		Slot 3: 2
		Slot 4: 1
		Slot 5: 67
		Slot 6: 11
		Slot 7: 46
		Slot 8: 14
		Slot 9: 6
		Slot 10: 74
		Slot 11: 61
		Slot 12: 8
			

3	quadTable3: size = 3 c1 = 2 c2 = 99 quadTable3.insert(66);	Slot 0: 1 Slot 1: 97 Slot 2: 66	

	quadTable3.insert(97); quadTable3.insert(1);		

4	quadTable4:
	size = 7
	c1 = 29
	c2 = 64
	quadTable4.insert(61);
	quadTable4.insert(97);
	quadTable4.insert(11);
	quadTable4.insert(28);
	quadTable4.insert(98);
	quadTable4.insert(9);
	quadTable4.insert(16);
	quadTable4.insert(2);
		Slot 0: 0
		Slot 1: 9
		Slot 2: 28
		Slot 3: 98
		Slot 4: 61
		Slot 5: 11
		Slot 6: 97
			Slot 0: 0
			Slot 1: 9
			Slot 2: 28
			Slot 3: 98
			Slot 4: 61
			Slot 5: 11
			Slot 6: 97

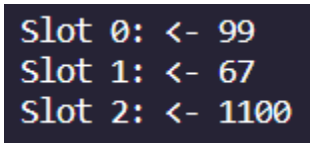
- **Chaining**

Núm. de caso	Valor ingresado	Valor esperado	Valor recibido

1	chainTable1:
	size = 4
	chainTable1.insert(7);
	chainTable1.insert(9);
	chainTable1.insert(2);
	chainTable1.insert(21);
	chainTable1.insert(64);
		Slot 0:
		Slot 1: <- 7 <- 2
		Slot 2: <- 9 <- 64
		Slot 3:
		Slot 4: <- 21
			Slot 0:
			Slot 1: <- 7 <- 2
			Slot 2: <- 9 <- 64
			Slot 3:
			Slot 4: <- 21

2	chainTable2:
	size = 13
	chainTable2.insert(0);
	chainTable2.insert(9);
	chainTable2.insert(19);
	chainTable2.insert(27);
	chainTable2.insert(49);
	chainTable2.insert(6);
	chainTable2.insert(97);
	chainTable2.insert(81);
	chainTable2.insert(2);
	chainTable2.insert(874);
	chainTable2.insert(66);
	chainTable2.insert(67);
		Slot 0: <- 0 <- 81
		Slot 1:
		Slot 2: <- 874
		Slot 3: <- 49 <- 2
		Slot 4:
		Slot 5: <- 67
		Slot 6:
		Slot 7: <- 9
		Slot 8: <- 27 <- 1
		Slot 9: <- 19 <- 6
		Slot 10: <- 66
		Slot 11:
		Slot 12: <- 97
			Slot 0: <- 0 <- 81
			Slot 1:
			Slot 2: <- 874
			Slot 3: <- 49 <- 2
			Slot 4:
			Slot 5: <- 67
			Slot 6:
			Slot 7: <- 9
			Slot 8: <- 27 <- 1
			Slot 9: <- 19 <- 6
			Slot 10: <- 66
			Slot 11:
			Slot 12: <- 97

	chainTable2.insert(1);		

3	chainTable3:
	size = 3
	chainTable3.insert(67);
	chainTable3.insert(99);
	chainTable3.insert(1100);
		Slot 0: <- 99
		Slot 1: <- 67
		Slot 2: <- 1100
			

4	chainTable4:
	size = 7
	chainTable4.insert(69);
	chainTable4.insert(9);
	chainTable4.insert(111);
	chainTable4.insert(2);
	chainTable4.insert(84);
	chainTable4.insert(97);
	chainTable4.insert(1);
	chainTable4.insert(26);
		Slot 0: <- 26
		Slot 1: <- 2
		Slot 2:
		Slot 3: <- 9
		Slot 4: <- 69 <- 111 <- 1
		Slot 5:
		Slot 6: <- 84 <- 97