Alex Iacob
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HW 12 - Hashing

Question 1:

Word	Letters used	Total
afghanistan	a g a i t n	52 % 10 = 2
latvia	l t i	41 % 10 = 1
myanmar	m a m r	45 % 10 = 5
canada	c n d	21 % 10 = 1
papua new guinea	p p a e g i e	59 % 10 = 9
ecuador	e u d r	48 % 10 = 8
mongolia	m n o i	51 % 10 = 1
new zealand	n w e l n	68 % 10 = 8

Index	Word	Collision Count
0)	N.Z.	2
1)	latvia	0
2)	afghanistan	0
3)	canada	2
4)	mongolia	3
5)	myanmar	0
6)		
7)		
8)	ecuador	0
9)	P.N.G.	0

Total Collision Count: 7

Question 2:

CountryInfo("afghanistan", 37, 3)

CountryInfo("latvia", 2, 5)

CountryInfo("myanmar", 53, 3)

CountryInfo("canada", 37, 6)

CountryInfo("ecuador", 17, 7)

CountryInfo("mongolia", 3, 3)

afghanistan: 2 + (37 * 3) = 113 % 10 = 3

latvia: 1 + (2 * 5) = 11 % 10 = 1

myanmar: 5 + (53 * 3) = 164 % 10 = 4

canada: 1 + (37 * 6) = 223 % 10 = 3

ecuador: 8 + (17 * 7) = 127 % 10 = 7

mongolia: 1 + (3 * 3) = 10 % 10 = 0

Index	Word	Collision Count
0)	mongolia	0
1)	latvia	0
2)		
3)	afghanistan	0
4)	myanmar	0
5)	canada	2
6)		
7)	ecuador	0
8)		
9)		

Total Collision Count: 2

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Question 3:

Index	Word	Collision Count
0)	ecuador	5
1)	mongolia	6
2)	N.Z	7
3)	afghanistan	0
4)	latvia	1
5)	myanmar	2
6)	canada	3
7)	P.N.G	4

Total Collision Count: 28