Lab #6 Show how to create a hash author: YiChen

Names	first letter	last letter	Letters sorted	frequency
Ymir	у	r	d	1
Odin	0	n	f	1
Frigg	f	g	g	1
Thor	t	r	i	1
Tyr	t	r		1
Loki		i	n	2
Vidar	V	r	0	1
Njord	n	d	r	4
			t	2
			V	1
			у	1

Calculate a value for each word					
Names	Length	first letter last letter		sum	
Ymir	4	Y = 1	R = 4	5	
Odin	4	O = 1	N = 2	3	
Frigg	5	F = 1	G = 1	2	
Thor	4	T = 2	R = 4	6	
Tyr	3	T = 2	R = 4	6	
Loki	4	L = 1	l = 1	2	
Vidar	5	V = 1	R = 4	5	
Njord	5	N = 2	D = 1	3	

Name sorted
Thor (6)
Tyr (6)
Vidar (5)
Ymir (5)
Njord (3)
Odin (3)
Frigg (2)
Loki (2)

h( name )=( len(name) + g( firstLetter(name) ) + g( lastLetter(name) )) % TSize

TSize P = 8

Max = 4

Name sorted
Thor (6)
Tyr (6)
Vidar (5)
Ymir (5)
Njord (3)
Odin (3)
Frigg (2)
Loki (2)

First word	Thor
len(name)	4
g( firstLetter = T)	0
g( lastLetter = r )	0
sum	4
Mod P	5

	g-values
d f	0
f	0 4
g	0
i	0
1	0
n	0
О	<del>0-</del> 5
r	0
r t v	0
٧	0
У	0

_	
Second word	Tyr
len(name)	3
g( firstLetter = T)	0
g( lastLetter = r )	0
sum	3
Mod P	3

Fouth word	Ymir		
len(name)	4	4	4
g( firstLetter = T)	0	1	2
g( lastLetter = r )	0	0	0
sum	4	5	6
Mod P	5	6	7
	(hash	clash!)	Yay

sixth word	Odin			
len(name)	4	4	4	4
g( firstLetter = T)	0	3	4	5
g( lastLetter = r )	0	0	<del>0</del>	0
sum	4	7	8	9
Mod P	5	8	0-	1
	(hash		clash!)	Yay

	Njord	0	
	Odin	1	
	Frigg	2	
1	Tyr	3	
	Loki	4	
	Thor	5	
	Vidar	6	1
	Ymir	7	

Third word	Vidar
len(name)	5
g( firstLetter = T)	0
g( lastLetter = r )	0
sum	5
Mod P	6

Fifth word	Njord			
len(name)	5	5	5	5
g( firstLetter =	0	1	2	3
T )	0	0	0	0
g( lastLetter =				
r)				
sum	5	6	7	8
Mod P	6	7	8	0
	(hash	clash!)		Yay

seventh word	Frigg	
len(name)	5	5
g( firstLetter = T)	4	5
g( lastLetter = r )	0	0
sum	9	10
Mod P	6	2
	(hash clash!)	Yay

Eighth word	Loki	
len(name)	4	4
g( firstLetter = T)	0	0
g( lastLetter = r )	0	0
sum	4	4
Mod P	5	4% P+1= 4
	(hash clash!)	Yay

