

		keys[]														vals[]											comparisons	isEmpty()	while (lo <= hi)	compareTo()		
		0	1	2	3	4	5	6	7	8	9	10	11		N		0	1	2	3	4	5	6	7	8	9	10	11				
key	value																															
E	0	E													1		0												1	1	0	0
A	1	A	E												2		1	0											4	1	2	1
S	2	A	E	S											3		1	0	2										6	1	3	2
Y	3	A	E	S	Y										4		1	0	2	3									6	1	3	2
Q	4	A	E	Q	S	Y									5		1	0	4	2	3								8	1	4	3
U	5	A	E	Q	S	U	Y								6		1	0	4	2	5	3							8	1	4	3
E	6	A	E	Q	S	U	Y								6		1	6	4	2	5	3							7	1	3	3
S	7	A	E	Q	S	U	Y								6		1	6	4	7	5	3							7	1	3	3
T	8	A	E	Q	S	T	U	Y							7		1	6	4	7	8	5	3						8	1	4	3
I	9	A	E	I	Q	S	T	U	Y						8		1	6	9	4	7	8	5	3					8	1	4	3
O	10	A	E	I	O	Q	S	T	U	Y					9		1	6	9	10	4	7	8	5	3				8	1	4	3
N	11	A	E	I	N	O	Q	S	T	U	Y				10		1	6	9	11	10	4	7	8	5	3			10	1	5	4
		A	E	I	N	O	Q	S	T	U	Y						1	6	9	11	10	4	7	8	5	3			81			