TITLE/NO.

M T W T F S S

Refs = None

11.

(a)

If $h(x)$ does a uniform hashing, then each possible value of $h(x)$ has equal chance being chosen regardless of x.

(b)

$h_1(x) = x \bmod 10$

linear probing: $L(x,i) = h_1(x) + i \bmod 10$

quadratic probing: $Q(x,i) = h_1(x) + i + 3i^2 \bmod 10$

keys: 13, 12, 2, 3, 4

using $L(x,i)$ =>

		12	13	2	3	4			
0	1	2	3	4	5	6	7	8	9

using $Q(x,i)$ =>

		12	13	4		2	3		