Osama Al-Wardi

problem (1)

a)

~~xxxxxx~~

$\langle 3, 10, 2, 4 \rangle$

hash function $h_1(k) = k \bmod 5$

$h_2(k) = (7 \cdot k) \bmod 8$

Insert 3:

$3 \bmod 5 = 3$

0	1	2	3	4
			3	

No collision.
3 inserted in index 3

Insert 10:

$10 \bmod 5 = 0$

0	1	2	3	4
10			3	

Insert 2:

$2 \bmod 5 = 2$

0	1	2	3	4
10		2	3	

Insert 4: $4 \bmod 5 = 4$

0	1	2	3	4
10		2	3	4

No collisions