



$1+4+1+6+2+10+10 \% 16 = 2$
 $4+1+6+2+10+10 \% 16 = 1$
 $1+6+2+10+10 \% 16 = 13$
 $6+2+10+10 \% 16 = 12$
 $2+10+10 \% 16 = 6$
 $10+10 \% 16 = 4$
 $10 \% 16 = 10$

b)

Node 2

start	interval	succ
3	(3,4)	4
4	(4,6)	6
6	(6,10)	10
10	(10,3)	13

Node 4

start	interval	succ
5	(5,6)	6
6	(6,8)	10
8	(8,12)	10
12	(12,5)	13

Node 6

start	interval	succ
7	(7,8)	10
8	(8,10)	10
10	(10,14)	13
14	(14,6)	2

Node 10

start	interval	succ
11	(11,12)	13
12	(12,14)	13
14	(14,12)	2
2	(2,10)	4

Node 13

start	interval	succ
14	(14,15)	2
15	(15,1)	2
1	(1,5)	2
5	(5,13)	6

n = number of nodes [5]
m = bytes needed for key [4]
i = $i > 1 \ \&\& \ m$
start: $(id + 2^{i-1}) \% 2^m$
int: (id^i, id^{i+1}) if its last (id^i, id)
succ: id of next node

c)

Iterative

Recursive

d)

Iterative

Recursive