Ex1

2 desirable properties of a hash function
- Uniformly distributed (phân bố đều) a cross its output space
- Deterministic (tất định)

Ex2

$h(i) = (2i + 5) \% 11$

Keys: 12, 44, 13, 88, 23, 94, 11, 39, 20, 16, 5

a)

0	1	2	3	4	5	6	7	8	9	10
	↑20			↑16 ↑5	↑44 ↑88 ↑11	↑94 ↑39	↑12 ↑23		↑13	

b)

0	1	2	3	4	5	6	7	8	9	10
↑11	↑39	↑20	↑5	↑16	↑44	↑88	↑12	↑23	↑13	↑94

Ex3

$h(i) = (i + 3) \% 17$

Keys: 1, 3, 18, 8, 23, 35, 11, 36, 20, 16

a)

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				↑16 ↑1 ↑18 ↑35	↑36 ↑20	↑3			↑23		↑8			↑11		

b)

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		↑16		↑1	↑18	↑3	↑35	↑36	↑23	↑20	↑8			↑11		