

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

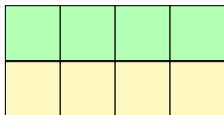
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 0

Writing



Cache miss: 0

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

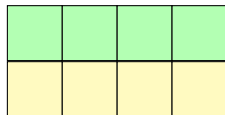
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 1

Writing



Cache miss: 1

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

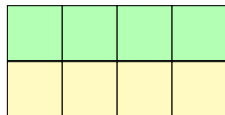
							1								
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 1

Writing



Cache miss: 2

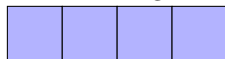
Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

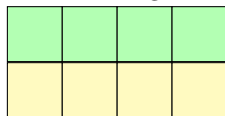
			1				1								1
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 1

Writing



Cache miss: 3

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

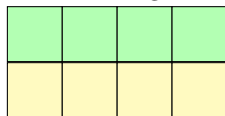
			1				1		1					1	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 1

Writing



Cache miss: 4

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

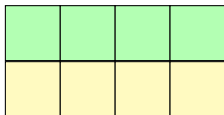
			1			1	1		1					1	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 2

Writing



Cache miss: 5

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

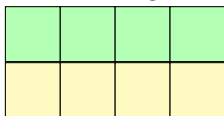
			2			1	1		1						1
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 2

Writing



Cache miss: 6

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

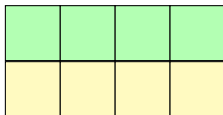
			2			1	1		1		1			1	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 2

Writing



Cache miss: 7



Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

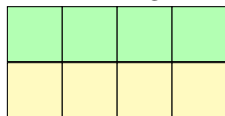
			2			1	1		1		1			1	1	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

Reading



Cache miss: 2

Writing



Cache miss: 8

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

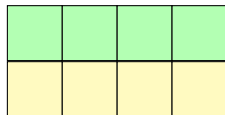
1			2			1	1		1		1		1	1	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 3

Writing



Cache miss: 9

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

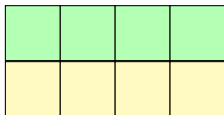
1			2			1	1		1	1			1	1	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 3

Writing



Cache miss: 10

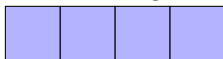
Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

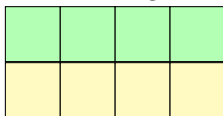
1			2	1		1	1		1	1	1		1	1	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 3

Writing



Cache miss: 11

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

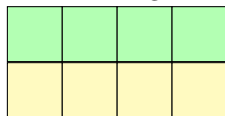
1			2	1		1	1		1	1	1			1	1	1
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

Reading



Cache miss: 3

Writing



Cache miss: 12

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

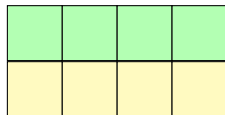
1			2	1		1	1		2	1	1			1	1	1
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

Reading



Cache miss: 4

Writing



Cache miss: 13

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

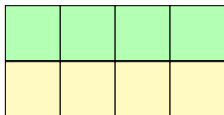
1		1	2	1		1	1		2	1	1			1	1	1
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

Reading



Cache miss: 4

Writing



Cache miss: 14

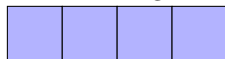
Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

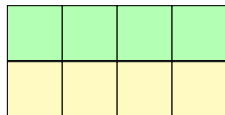
1		1	2	1		1	1		2	1	1		1	1	2
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 4

Writing



Cache miss: 15



Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

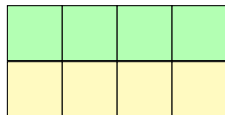
1		1	2	1		1	2		2	1	1		1	1	2
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 4

Writing



Cache miss: 16

Input Array

14	7	3	9	6	3	11	13	0	10	4	15	9	2	15	7
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Counting Array

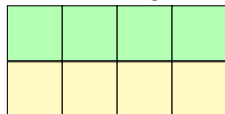
1		1	2	1		1	2		2	1	1		1	1	2
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Reading



Cache miss: 4

Writing



Cache miss: 16

Total cache misses: 20