Sets + Binary File lab

Implicit Implementation

Set A	set B	Set A ∪ set B	set A ∩ set B	set A - set B
4	4	4	4	6
6	8	6	12	16
12	10	8	32	18
16	12	10	40	22
18	20	12	48	26
22	24	14		34
26	30	16		36
32	32	18		48
34	38	20		
36	40	22		
40	42	24		
48	44	26		
	48	30		
		32		
		34		
		36		
		38		
		40		
		42		
		44		
		48		

Bit Vector Representation

set A

4	6	8	10	12	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
1	1	0	0	1	1	1	0	1	0	1	0	0	1	1	1	0	1	0	0	0	1

set B

4	6	8	10	12	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
1	0	1	1	1	0	0	1	0	1	0	0	1	1	0	0	1	1	1	1	0	1

set A ∪ set B

4	6	8	10	12	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1

set A ∩ set B

4	6	8	10	12	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1

set A — set B

4	6	8	10	12	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
0	1	0	0	0	1	1	0	1	0	1	0	0	0	1	1	0	0	0	0	0	1