

Given the following posting

[(35, 5), (43, 8), (44, 7), (50, 2)]

### d-gaps

[(35, 5), (8, 8), (1, 7), (6, 2)]

35 5 8 8 1 7 6 2

		#bit	2n-1
35	100011	6	11
5	101	3	5
8	1000	4	7
8	1000	4	7
1	1	1	1
7	111	3	5
6	110	3	5
2	10	2	3

Write the resulting VarInt compression.

10100011 | 10000101 | 10001000 | 10001000 | 10000001 | 10000111 | 10000110 | 10000010

⇒ 8 bytes

Write the resulting Simple-9 compression.

6,3,4,4,1,3,3,2

7 -> 0101 | 6,3,4,4

7 -> 0101 | 1,3,3,2

⇒ 4x2 = 8 bytes

Write the resulting Bit-Aligned compression.

Total (2n-1) = 11+5+7+7+1+5+5+3 = 44

⇒ 44/8 = 6 bytes