W2D3 Solution B: Compression inverted index using **Simple-9** method

Inverted index	(**964**, 17), (**1488**, 63), (**2240**, 24), (**3168**, 32)
d-gaps	(**964**, 17), (**524**, 63), (**752**, 24), (**928**, 32)
Binary of d-gaps	964 ≡ 11 1100 0100 17 ≡ 1 0001 524 ≡ 10 0000 1100 63 ≡ 11 1111 752 ≡ 10 1111 0000 24 ≡ 1 1000 928 ≡ 11 1010 0000 32 ≡ 10 0000
# of bits required	**10**, 5, **10**, 6, **10**, 5, **10**, 6

Split by Simple-9 table:

10	5	10	6	10	5	10	6
2 numbers, each at most 14 bits		2 numbers, each at most 14 bits		2 numbers, each at most 14 bits		2 numbers, each at most 14 bits	

Generate WORD sequence

4 bits	14 bits	14 bits
0111	**00 0011 1100 0100**	**00 0000 0001 0001**
	964 (10 bits)	17 (5 bits)

4 bits	14 bits	14 bits
0111	**00 0010 0000 1100**	**00 0000 0011 1111**
	524 (10 bits)	63 (6 bits)

4 bits	14 bits	14 bits
0111	**00 0010 1111 0000**	**00 0000 0001 1000**
	752 (10 bits)	24 (5 bits)

4 bits	14 bits	14 bits
0111	**00 0011 1010 0000**	**00 0000 0010 0000**
	928 (10 bits)	32 (6 bits)

Size after compression: **4 WORDS** x 4 Bytes = **16 Bytes**