

W2D3 Solution A: Compression inverted index using **VarInt** method

Inverted index	(964, 17), (1488, 63), (2240, 24), (3168, 32)																													
Size before compression	4 pairs * 6 bytes = 24 bytes																													
Find 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																													
Generate Byte sequence	<table><tr><th colspan="2">964</th><th>17</th><th colspan="2">524</th><th>63</th></tr><tr><td>0000 0111</td><td>1100 0100</td><td>1001 0001</td><td>0000 0100</td><td>1000 1100</td><td>1011 1111</td></tr></table> <table><tr><th colspan="2">752</th><th>24</th><th colspan="2">928</th><th>32</th></tr><tr><td>0000 0101</td><td>1111 0000</td><td>1001 1000</td><td>0000 0111</td><td>1010 0000</td><td>1010 0000</td></tr></table>						964		17	524		63	0000 0111	1100 0100	1001 0001	0000 0100	1000 1100	1011 1111	752		24	928		32	0000 0101	1111 0000	1001 1000	0000 0111	1010 0000	1010 0000
964		17	524		63																									
0000 0111	1100 0100	1001 0001	0000 0100	1000 1100	1011 1111																									
752		24	928		32																									
0000 0101	1111 0000	1001 1000	0000 0111	1010 0000	1010 0000																									
Size after compression:	12 Bytes																													