

$$\text{data segment index} = i = \frac{\text{byte offset}}{\text{segment size}} = \overbrace{0010111}^{i_n} \mid \overbrace{0010111}^{i_{n-1}} \mid \overbrace{\dots}^{\dots} \mid \overbrace{0010111}^{i_1} \mid \overbrace{0010111}^{i_0} \mid \overbrace{00011}^{\text{division by } 32}$$

