

$$T(n) = T(n/2) + T(n/2) + n$$

$$T(n) = 2T(n/2) + n$$

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$$T(n/2) = 2T(n/4) + n/2$$

$$T(m) = 2\left[2T(n/4) + n/2\right] + n$$

$$= 4T(n/4) + 2\left(\frac{n}{2}\right) + n$$

$$Gen = 4T(n/4) + 2n$$

$$4/(2n) + 2n$$

$$= \frac{2^{10} \int_{3}^{2} (1) + n(\log_{2} n)}{n + n \log_{2} n}$$

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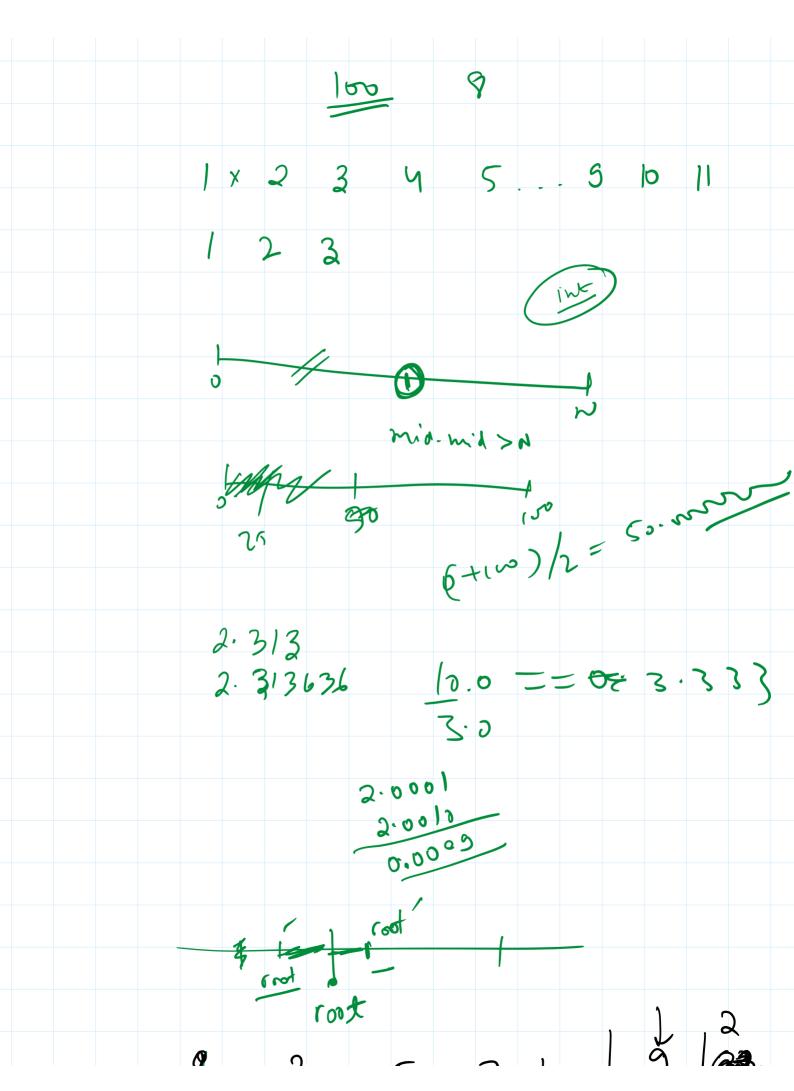
$$= \frac{2^{10} \int_{3}^{2} (1) + n(\log_{2} n)}{n + n \log_{2} n}$$

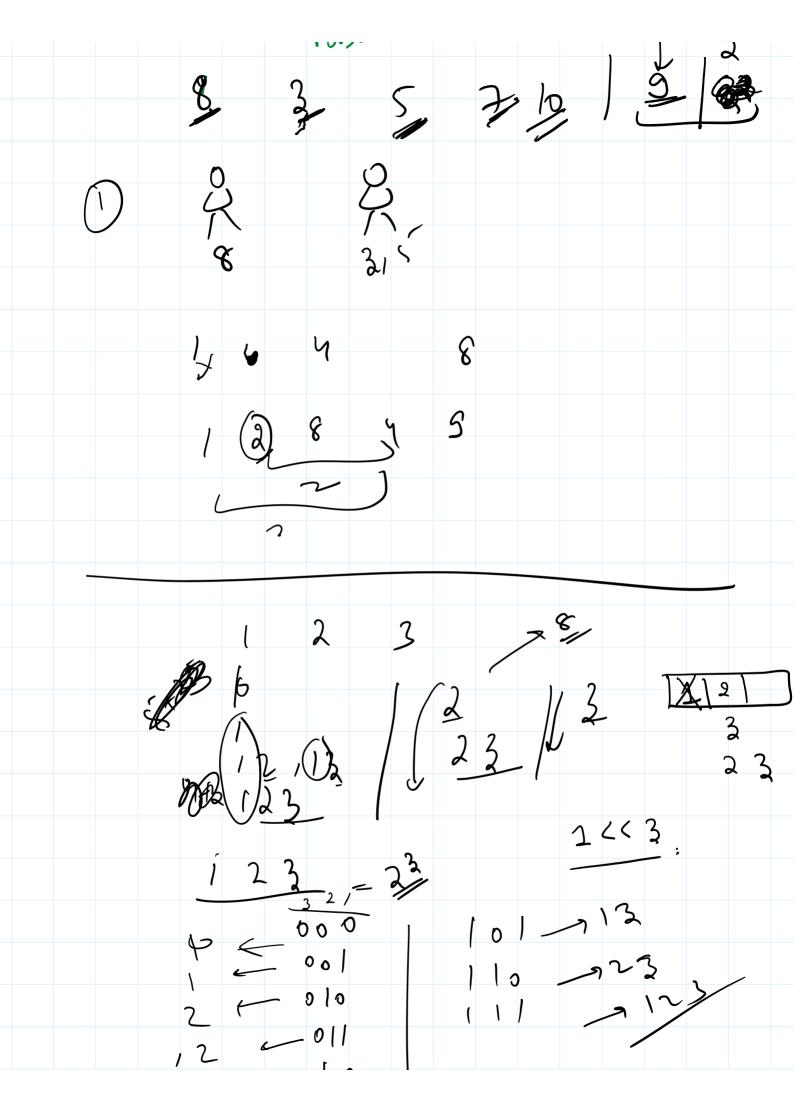
$$= \frac{2^{10} \int_{3}^{2} (1) + n(\log_{2} n)}{n + n \log_{2} n}$$

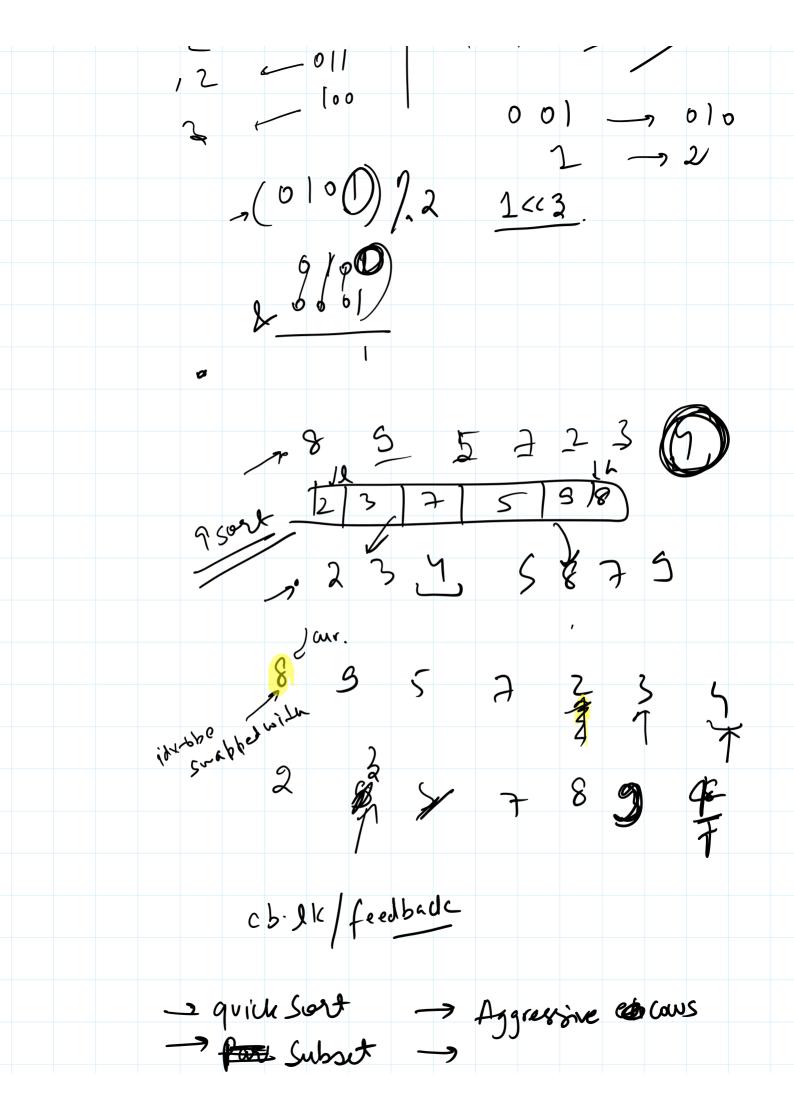
$$= \frac{2^{10} \int_{3}^{2} (1) + n(\log_{2} n)}{n + n \log_{2} n}$$

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