Assignment#1 One Note Answers Andrew Plum

Wednesday, September 20, 2023 2

2:46 AM

$$| \sum_{i=0}^{n-1} \sum_{i=0}^{n-1} | = \sum_{i=0}^{n-1} (n-i) - 0 + 1 = \sum_{i=0}^{n-1} n = \sum_{i=0}^{n-1} (n-i) - 0 + 1 = \sum_{i=0}^{n-1} (n-i) + 1 = \sum_{i=0}^{n-1} | (n-i) - (i+1) + 1 = \sum_{i=0}^{n-1} | (n-i-i-1) + 1 = \sum_{i=0}^{n-1} | (n-i-i-1) + 1 = \sum_{i=0}^{n-1} | (n-i-i-1) + 1 = \sum_{i=0}^{n-1} | (n-i-i) + 1 = \sum_{i=0}^{n-1} | (n-i) + 1 = \sum_{i=0}^$$

$$\sum_{i=0}^{n-1} 4 = 4 \sum_{i=0}^{n-1} 1 = 4(n-1-0+1) = 4n \approx \Theta(n)$$

$$\sum_{i=0}^{n-1} 4i^{2} = 4 \sum_{i=0}^{n-1} \frac{(n-1)((n-1)+1)(2(n-1)+1)}{6} = \frac{(n-1)(n)(2n-1)}{6} = \frac{(n-1)(n)(2n-1)}{6} = \frac{(n-1)(n)(2n-1)}{6} = \frac{(n-1)(n)(2n-1)}{6} = \frac{(n-1)(n)(2n-1)}{6} = \frac{(n-1)(n)(2n-1)}{6} = \frac{(n-1)^{n-1}}{6} \approx \Theta(n^{3})$$

$$\sum_{i=0}^{n-1} \frac{1}{2} = \frac{1}{4+1} \frac{(n-1)^{4+1}}{6} = \frac{(n-1)^{5}}{5} \approx \Theta(n^{5})$$

$$\sum_{i=0}^{n-1} \frac{1}{2} \frac{1$$

