## ADA mini-homework 10

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1.

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$$12 + 6 + 4 + 3 + 2 = 27$$

2.

Aggregate method

$$n/1 + n/2 + n/3 + ... + n/n = n * (1 + 1/2 + 1/3 + 1/4 + 1/5 + 1/6 + ... + 1/n)$$

We can see that  $\sum_{i=1}^{n} \frac{1}{i} \le \ln(n)$ . Therefore, each operation takes  $\ln(n)$  time, and the total time complexity is  $O(n * \ln(n))$ .