Q.1.

The time complexity of the given Gde is $O(n^2)$ and we can improve it by using the formula $(n^{*}(n+1))/2$.

$$\frac{Q.Q.}{Ams} = \frac{3}{4} = 3 + 3 + (1) + 12 + (2)$$

$$= 3 = 3 = 3 + (2) + (2 + 1) = 3 = 3 = 3 = 3 + 24$$

$$= 3 = 3 = 3 + 24 \Rightarrow 105$$

$$\Rightarrow 3 = 3 = 3 + 24 \Rightarrow 105$$

$$\frac{Q_1 \cdot 3}{f(n-1)} = \frac{1}{f(n-1)} + c$$

$$\frac{1}{f(n-1)} = \frac{1}{f(n-2)} + c$$

$$\frac{1}{f(n)} = \frac{1}{f(n-2)} + c$$

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$$T(n-2) = T(n-2-1) + c$$

= $T(n-3) + c$.

$$[t(n)] = t(n-3) + 3c$$
 - (3)

$$T(n) = t(n-k) + kc$$

$$N - K = 1$$

$$N = K + 1$$

$$K = N - 1$$

 $|\log n| = |\log 2||$ $|\log n| = |\log 2||$ $|\log n| = |\log 2||$ $|\log n| = |\log 2||$

$$\frac{1}{2^{2}} = 2 + \left(\frac{\kappa}{2}\right) + 1$$

$$\frac{\kappa}{2^{2}} = \frac{\kappa}{2^{2}} = \frac{\kappa}{2$$