

Ex #3  $\Rightarrow T(1) = \underline{\underline{10 \text{ sec}}}$

$O(n^3)$   $T(\underline{100}) = \underline{15 \text{ sec}}$

$T(\underline{\underline{400}}) = ?$

$T(100) = \underline{10} + \underline{5} = 15 \text{ sec}$

$T(400) = 10 + \boxed{?} = ?$

$n^3 \Rightarrow 4^3 \Rightarrow \underline{64}$

$T(400) = 10 + 5 \times 64 = \boxed{330 \text{ sec}}$

Ex #4

$$N = 1000$$

$$n = 1,000,000$$

$$T(N) = \boxed{C} N \log N$$

1ms

1000

1000

$$T(n) = \boxed{C} n \log n$$

?

1,000,000

$$C = \frac{T(N)}{N \log_{10} N}$$

1ms

$$T(n) = \frac{T(N)}{N \log_{10} N} * n \log_{10} n$$

$$\Rightarrow \frac{1000 \log 1000}{1000 \log 1000} * 1,000,000 * \log 10^6$$

$$\Rightarrow 2000 \text{ ms} \Rightarrow \underline{\underline{2 \text{ sec}}}$$

EX#5

0x 45 67 89 A1  
msb lsb

Addr	1016	1017	1018	1019
LE	A1	89	67	45
BE	45	67	89	A1





































