$N \circ D(N) = ?$

 $(\sqrt{N}) \rightarrow N = P_1^{\alpha_1} \cdot P_2^{\alpha_2} \cdot P_3^{\alpha_3}$

 $360 = 2^3 \cdot 3^2 \cdot 5$

360 are 1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, 18, 20, 24,30, 36, 40, 45, 60, 72, 90, 120, 180 and 360

 $N = P_1^{a_1} \cdot P_2^{a_2} \cdot P_3^{a_3} \cdot \cdots P_K^{a_K} \longrightarrow O(\sqrt{N})$

 $NOD(N) = (a_1+1)(a_2+1)(a_3+1) - - (a_K+1)$

 $N = 10^{12}$, $T = 10^{3}$ $N = 10^{12}$, $N = 10^{3}$

 $O\left(T, \sqrt{N}\right) = O\left(10^3.10^6\right)$

N -> prime divisors

$$360 = 2 \frac{3}{3} = \frac{3}{2} = \frac{32}{2} \approx 10^{10}$$

$$0(\sqrt{N} + T \cdot K_{m}) = \frac{32}{3} \approx 10^{10}$$

$$10^{1} \times 10^{6}$$

$$10^{1} \times 10^{6}$$

$$10^{1} \times 10^{6}$$

$$10^{1} \times 10^{1} =$$

problem 2:
$$SOD(N) = ?$$

360 are 1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, 18, 20, 24, 30, 36, 40, 45, 60, 72, 90, 120, 180 and 360

$$360 = 2^{3} \cdot 3^{2} \cdot 5^{1}$$

$$(2^{\circ} + 2^{1} + 2^{2} + 2^{3}) \cdot (3^{\circ} + 3^{1} + 3^{2}) \cdot (5^{\circ} + 5^{1}) \quad \text{Sum} = \begin{bmatrix} 2^{\circ} + 2^{1} + 2^{2} + 2^{3} & 3^{2}$$

Discrete Math -> H.N Rosen

Counting