Fuler To hent

 $\phi(P) = P-1$ 

 $\phi(6) = 2$ 

\$ (10) = 4

\$(5) = 4

gcd(i, p) = 1

 $N = P_1 \times P_2 \times P_3 \times P_4 \times \dots \times P_K$ 

 $\phi(N) = N(1 - \frac{1}{P_1})(1 - \frac{1}{P_2})...(1 - \frac{1}{P_R})$ 

 $= N \cdot \prod_{i=1}^{K} \left(1 - \frac{1}{P_i}\right) = N \cdot \prod_{i=1}^{K} \left(\frac{P_i - 1}{P_i}\right)$ 

 $(20) = 20. \frac{2-1}{2}.\frac{5-1}{5}$ = 20. \frac{1}{\chi}.

 $\phi(N) = N - (\varkappa_1, \varkappa_2, \dots)$ 

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$$\frac{N}{\chi}(\chi-1) = \frac{N\chi-N}{\chi} = \frac{N\chi-N}{\chi}$$

$$N - (\frac{N}{\chi})$$