$O(f(m)) \subset O(g(m)) \xrightarrow{4} f(m) \in O(g(m)) \land g(m) \notin O(f(m))$ $\Rightarrow \lim_{m \to \infty} \frac{f(m)}{g(m)} \in [0,\infty) \land \lim_{f \to \infty} \frac{g(m)}{f(m)} \in [0,\infty)$ $O(f(m)) \subset O(g(m)) \land O(g(m)) \notin O(f(m))$ $\Rightarrow O(f(m)) \subset O(g(m))$

$$\Rightarrow$$
 $(m_0g(m) \leq f(m) \leq m_1g(m)$

Entimees

$$m_2 g(m) \leq f(m) \leq m_2 g(m) - (1)$$

$$m_4 m_2 h(m) \leq f(m) \leq m_1 m_3 h(m)$$

$$\Rightarrow \int f(m) = O(h(m))$$

- Clfinite (total) +> fear & Olgen) A Jun & C