

Complete Course on Algorithm for GATE - CS & IT

Main()

$$fr(i=1; i \leq n', i+1)$$

$$fn(j=1; j \leq i^{2}; j+1)$$

$$1 = 1 = 2 = 1 = 3$$

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$$1 = 3$$

$$1 = 3$$

$$2 = 3$$

$$3 = 6$$

Main() inti; -for (:=1; i < n; i+1) for (i=1; i=n4; i+1) for (i=1; i=n3; i+1)  $\forall x = y = 17;$ infinite loop.

Alympholic Naturo

(et f(n) 11 g(n) se twi the functions

$$-(el) = O(S(2))$$

$$iW$$

$$f(n) \leq C(s(n))$$
,  $\forall n$ ,  $n \geq 0$ 

 $\eta + s = O(\eta)$ 

$$f(n) = n+5, \quad f(n) = n$$

$$\frac{f(n)}{f(n)} = O(\frac{s(n)}{s(n)}) \quad \text{if} \quad \frac{(n+1)}{s} = \frac{1}{s} = \frac{1}{s}$$

$$f(n) = n, g(n) = n+5$$

$$f(n) = 0(s(n))$$

$$n \leq c \cdot (n+s)$$
,  $+n$ ,  $n \geq n$ ,  $\parallel$ 

$$n = O(n+5)$$

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$$M = m(1)$$
 $S = 0$ 
 $S = 0$ 
 $S = m; \quad i = 1+1$ 
 $S = S + i$ 

$$1 \leq n$$

$$1+2 \leq n$$

$$1+2+3 \leq n$$

$$1+2+3+4 \leq n$$

$$\vdots \qquad K$$

$$1+2+3+4+\cdots+K = n$$

$$K(K+1) = n$$

$$f_{N}(i=1), i \leq n; i+1)$$

$$f_{N}(j=1); j \leq n; j=j+i)$$

$$f_$$

