

Time Complexity - Part I

Complete Course on Algorithm for GATE - CS & IT

Algo

① Analysing Algo TC
SC

② Divide & Conquer

③ Greedy Technique

④ Dynamic Programming

⑤ Hashing, Graph algo's

Syllabus

Referruncel

Introduction to Algo
by

Coreman

* Doubt

(3)

my classes are
enough

(1)

youtube.com
NPTEL, MIT

(4)

8882089903

whatsapp

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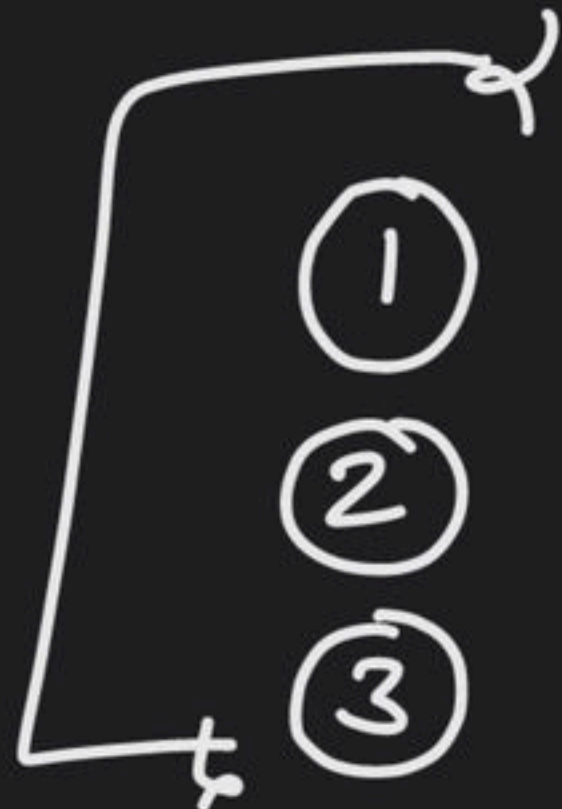
gotosher

Algo

Definition: It is a combination of sequence of finite steps to solve a problem.

ex

ATN()



①

read a, b

②

add a and b and store in c

③

write c

Properties of Algo \Rightarrow Htm

- ① It should terminate after finite time.
- ② It should produce all I/O/p
- ③ It should be deterministic
- ④ Every stmt in algo should be effective.
- ⑤ It is independent of P.L

Steps to design Algo for given probl

- ✓ ① Problem Definition
- ② Select Designing Technique
- ③

$\omega_L(i)$
 $pf(h_i)$

tm

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$n4$