05-09 Algorithmic Analysis
05 September 2022 21:52

what is algorithm?

-> An algo. is step by step instructions to solve a given problem.

Orrepare Maggi

- 1. Get a frying fon.

-2 Take oil

3. Two on the Store

4. Add maggil mosda

& Reverse an corrag-

an: 13 3 45 019= 54 3 21

1. Swap 1st R last chem.

2. Swar 2nds 2nd last elder.

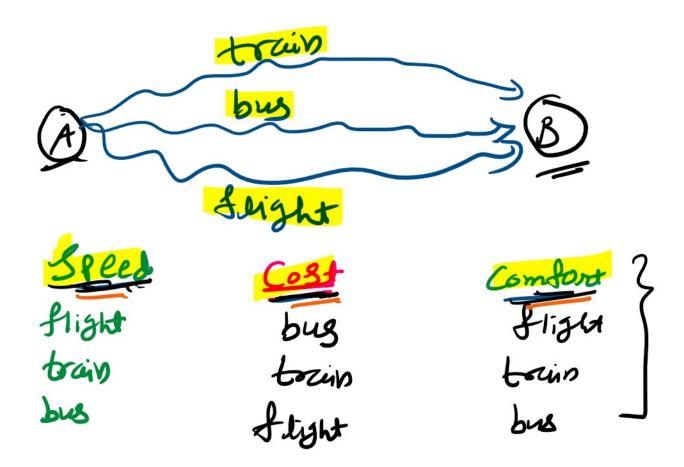
1. Read a Problem Stat-

2. Devise an algo #

3 Code an algo.

90v.

J-> 3 dgs 3

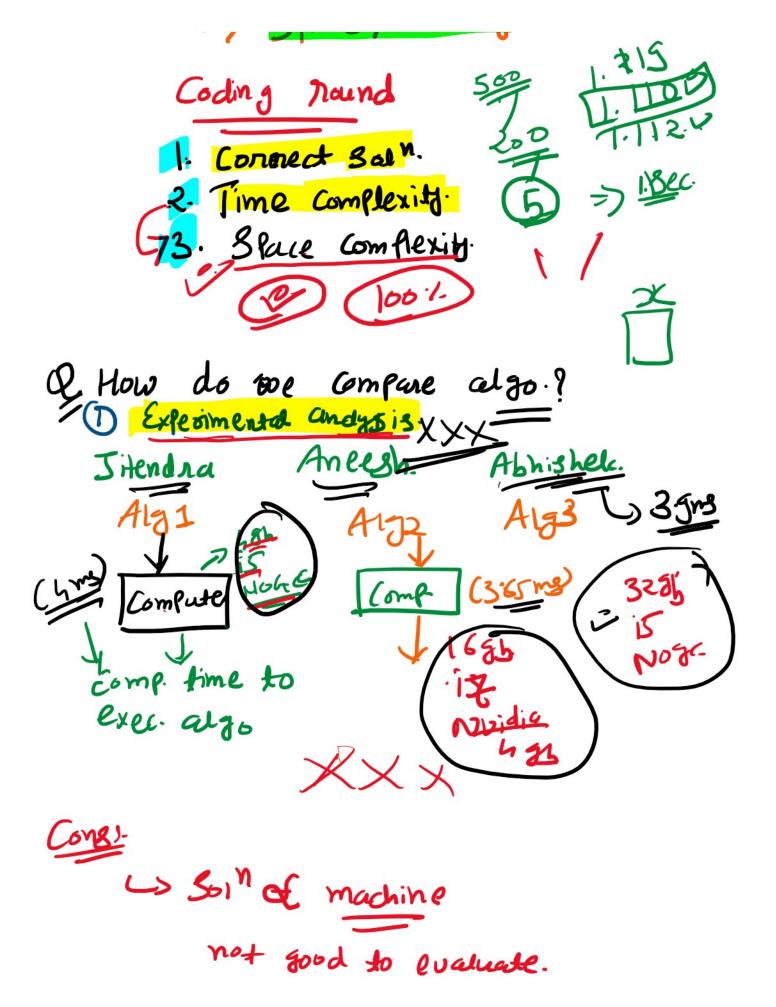


I Grow of algo- analysis!
The goal of algo- and is to compare algo- in terms of.

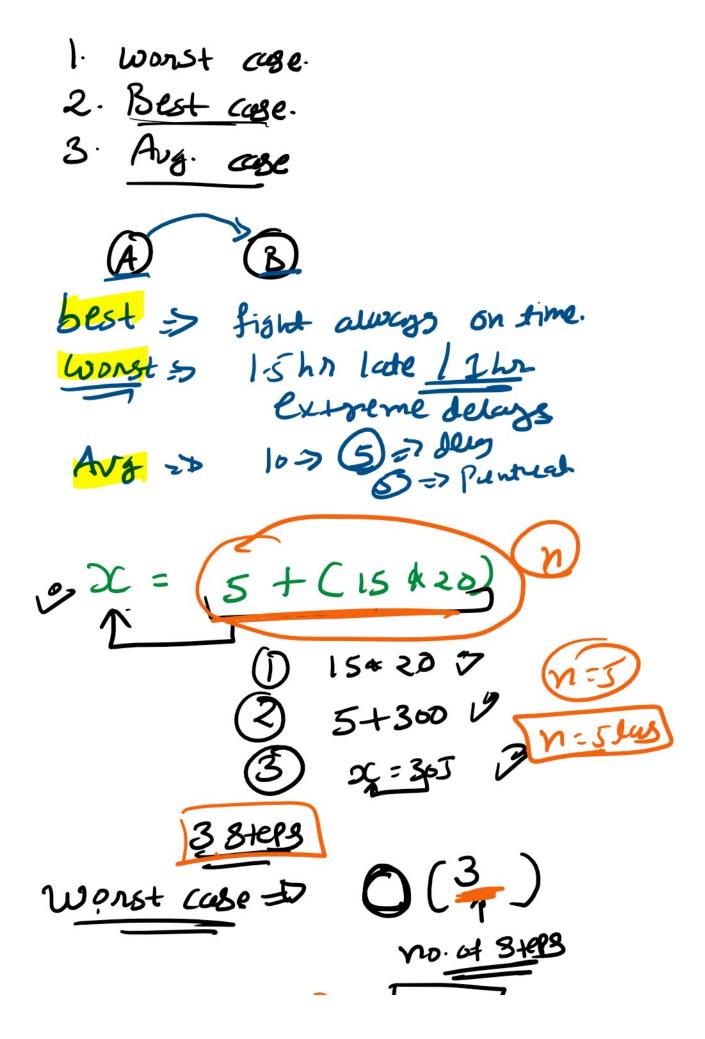
L> Time

by Stace/memory.

1. 215



2 Asymptotic analysis Lo we do not dep	
Jitendra Algi n=5	Aneesh- Alga In=5
m=(100) 1 min 100 1 min 100 1 min	M=10000 min
1. iterate through a 2. Compare 2 values	10003 -> 5432/ 10003 -> 58488 10003 -> 58488
1. time it will trute in terms of inpu 2. machine-indepen	J Complexity is it size
Tyles of measurer	





for (i=0; i<n; it) {
Print(i) Time Complexity.

for Ciclis Kni HU { Print(i) M-1 3+883

(100ns) O(n) (00ns) O(n) (00ns) 20(n)