

Determination marlines	Non-determents c machines	No.
- Conventional digital machines are	- Hypothetical machine.	
deterministic in nature.		
- Scrialization of resource access.	->1 job can be done in lund	time
- Do a sequential exec" based on:	- There will be only I hypothetical	
· von Neumann Architecture.	procusor which can do >1 job at	
· Serializ" of resource access.	any oustance of time.	
eg: Laura siarch - O(n)	eg: Linear search - O(1) (para	llel fo
	Market and a state of the state	in the second beautiful and
> Plan / Polynomial Class hobleme		
	at can be solved in polynomial time !	ч
determinate algorithms.		0
eg: O(1) - Constant	Decision problems are	
O(log or) - Sub-linear	problems with yes las	7 7 7
O(n) - Linear		
O(nlyn) - Nearly timear	answers.	
O(n2) - Quadratic.		
	2020	I.A
> NP Class / Non-deturninistic Poli	ynomial class trobleme.	1
> NE Class / Non-deterministic Poly The class of decision problems the	at can be solved in polynomial time	
> NP Chass / Non-deterministic Poly The class of decision problems the by non-deterministic algorithm	at can be solved in polynomial time	
> NP Chass / Non-deterministic Poly The class of decision problems the by non-deterministic algorithm eg:-Graph coloring	at can be solved in polynomial time. - Bin packing	
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> NP Chass / Non-deterministic Poly The class of decision problems the ly non-deterministic algorithm eg:-Graph coloring - Hamiltonian eyele - " path	at can be solved in polynomial time - Bin packing - Subset sum problem - Satis lightly	
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> NP Chass / Non-deterministic Poly The class of decision problems the by non-deterministic algorithm eg:-Graph coloning - Hamiltonian eyele - " path - Job scheduling with penaltie	at can be solved in polynomial time - Bin packing - Subset sum problem - Satis fiability " Traveling sales person problem	
No Chass / Non-deterministic Poly The class of decision problems the by non-deterministic algorithm eg:-Graph coloring - Hamiltonian eyele - " path - Job scheduling with penaltie Non-deterministic algorithm has	et can be solved in polynomial time - Bin packing - Subset sum problem - Satis fiability - Traveling sales person problem a phase and a sent	
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No Class / Non-deterministic Pole The class of decision problems the ly non-deterministic algorithm eg: Graph coloring - Hamittonian cycle - " path - Job scheduling with penaltie Non-deterministic algorithm has (i) Non-deterministic guessing place - Some completely arbeitrary string some designated place in memory - Each time the algorithm is (ii) Peterministic verifying phase -	et can be solved in polynomial time - Bin packing - Subset sum peroblem - Sotis fiability o Traveling sales person problem e phases and & off step: y of chars s, is written beginning at ony. run, the string written may differ	
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- Eventually, it neturns a value true or false-or it may get in an infinite loop and never halt.

Siis Output step - If the verifying phase returned true, the algorithm outputs yes.