21.04.2020	
21.	
The class of decision problems that can be solved in polynomial time!	B
deterministic algorithms, ie, they can be solved in of a same in we	tot case,
The class of decision problems that can be solved in O(nk) time in we deterministic algorithms, is, they can be solved in O(nk) time in we eg: O(1) - Constant Lecision problems are problems with yes w	
C(ug h) - son much	
O(nlyn) - Nearly linear	
O(n²) - Quadratic.	
> NP Chass / Non-deturnieristic Polynomial class Problems.	2
The class of decision problems that can be solved in polynomial time by non-determination algorithms ("Lucky" magic also that makes a second transmitter algorithms ("Lucky" magic also transmitter algorithms ("Lucky" magic algorithms ("Lucky" mag	right gave
by non-deterministic algorithms. among the given set of crusters.	
- Hamiltonian eyele - Subset seem problem	7.0
- Hamiltonian cycle - Satis Gability "	1
The second of th	m -
- Job scheduling with penalties - Traveling sales person pure	
Non-deterministic algorithm has a phrases and & of step:	
(i) Non-deterministic guessing phase -	
- Some completely arbitrary string of chars 3, is written beginning at	<u> </u>
some designated place on memory.	
- Each time the algorithm is run, the string written may differ-	
(is Peterministic verifying place -	
- A deterministic subvoutine begine execution.	
In addition to the decision problem's input, the subrouting use or ignores.	e may
use or égnores.	

- Eventually, it neturns a value true or false or it may get in an Enforcte loop and never halt.
- Ein Output step If the verifying phase returned true, the algorithm outputs yes.
- . the NP class consists of those problems that are verifiable in polynomial time. NP is the class of decision problems for which it is easy to check the correctness of a classed answer
- · Every problem in this dass can be solved in exponential time neing exhaustive search.

P us NP

- · Every decision problem that is solvable by a determinative polynomial time non-determinative algorithm.
- · All probs in I can be solved using polynomial time algorithms, whereas all problems de NP-P are intractable.

Millenium Prize Million dollar question: Is P= NP?

PERP : any problem that can be solved quickly by a computer can also have a particular possible answer that can be quickly checked by the computer.

The reverse - whether or not NP = P - is unknown: we don't know nobether or not probs that have a good algorithm for checking ans were also have good algorithms for finding answers.