





















Class P

- Class P is the set of decision problems that can be solved by a Turing machine in a polynomial time.
- Decision problem is a problem whose answer is either yes or no.
 - > The halting problem is a decision problem.
- If the problem size is N, polynomial time means the running time is dominated by a polynomial function of N
- Exponential function f(N)=2^N is always larger than the polynomial p(N)=N^k for any constant k if N is large enough.
- Most computer scientists consider the problems in class
 P can be solved practically

