CSC373 Worksheet 7 Solution

August 14, 2020

1. <u>**Notes**</u>

   - **Introduction**
     - To be a good algorithm designer, one must understand its rudiments.
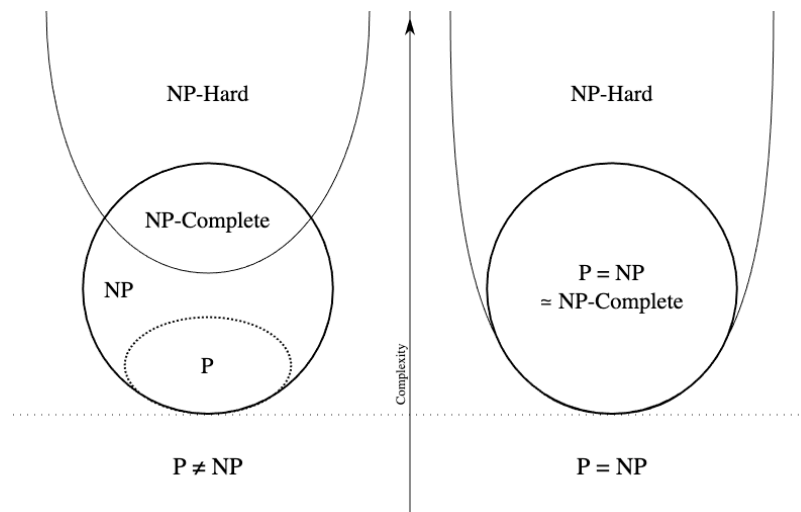   - **P**
     - Class of problems that can be answered in polynominal time

       <u>**Example:**</u>

       1) Calculating the greatest common divisor
       2) Finding maximum bipartite matching

   - **NP (Non-deterministic Polynominal):**

     - Is a class of problems where solution can be guessed and verified in polynominal time; non-deterministic means that no particular rule is followed to make a guess. [1]

– Can be verified in "polynominal" time

References

1) Encyclopedia Britannica, NP-Complete Problem, link