Study Subject Outline for Final Exam

- Solver/listener paradigm
- Socratic questioning
- Verbal reasoning
- Analogies
- Algorithms: Pseudo code language, Divide and conquer algorithms, and Recursive algorithms
- Heuristics: externalize, simplify, go to extreme, visualization, invariants, pigeonhole principle, special features, penultimate step, and symmetry
- Non-verbal reasoning, spatial reasoning
- Cryptoarithmetic problems
- Deductive and hypothetical reasoning, mathematical word problems
- Analysis of Trends and Patterns
- Interpersonal problem solving
- Problem solving in large:
    - Strategies,
    - Mental blocks and ways to overcome them,
    - Gathering information,
    - Problem definition techniques,
    - Solution generation techniques, Osborn's checklist
    - Decide course of action,
    - Kepner-Tregoe Approach: phases, their usage, tables
    - K.T. phases: Situation appraisal, problem analysis, decision analysis, potential problem analysis

For more details on the listed subjects refer to course slides.