C++ section (60 points)
1. (40 pts) Write functions for C++ classes
2. (20 pts) Multiple choice questions about C++
   pointers, char*, define, constructors, destructors, inheritance, virtual, protected,
   private, public, linked lists, trees, overloading functions

SE section (140 pts)
1. (30 pts) Software Design
   Given a problem statement, draw an object model and interaction (sequence) diagrams
2. (30 pts) Cost Estimation
   Derive cost formula, Calculate using COCOMO, and/or count Function Points
3. (25 pts) C0/C1 and/or Boundary Testing
   from code, build cfg and tests cases including path, input values and expected outputs
   and/or from code, 2-on, 1-off tests for a boundary between two regions designated by the output
4. (25 pts) McCabe’s cyclomatic number and/or Halstead’s software science
   from a cfg or from code, label cfg and calculate using all three formulas
   and/or from code, calculate length, estimated length, volume, and potential volume
5. (30 pts) Multiple Choice questions
   Cumulative
   Lecture slides, Pressman, SOS, Articles