CS446102 Software Engineering Homework 2 (Group Exercise)

Inspection Homework   Deadline: 5/10 (Sun.)
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1. *Program1.cpp* and *Program2.cc* are C++ programs. *Program1.cpp* is a program to simulate a sales management system, and you can see how this system works in Program1.pdf. *Program2.cc* is a program to make concordances for text files, and you can see how it works in Program2.pdf. Although these two programs worked very well, they have been recently hacked and seeded roughly 37 and 40 faults separately. According to the hacker, some faults are obvious while some may be hard to identify and even cause security problems. Your task is to form an inspection team and identify potential faults. Please separate your group into 2 inspection teams, and each team should make an inspection report for one program. (For example, team 1 for *Program1.cpp*, and team 2 for *Program2.cc*.)

   (a) Generate a complete inspection report which includes all the information in Appendix A (Formal Technical Review Forms.pdf). If you have any questions about the forms, please read the guidance for help (Review Forms Help.pdf). The grading will depend on the completeness of the report, the total defects found, and the number of identified defects unfound by other groups. **(70%)**

   (b) In addition to the fields in Appendix A, add the inspection metrics including *estimated total defects*, *yield*, *defect density*, *inspection rate*, and *defect finding efficiency* at the end of the inspection report. For each matrix, briefly show the calculation. **(30%)**