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|  | MAKE-UP LAB #6  Object Oriented Programming |  |

This make-up lab exercise is **open book/open notes** and an **individual effort**; however, collaboration is permitted with the four 2/c TOOP Assistants. This make-up lab will allow you to earn up to half the points you missed on Lab #6 (I will take the average of both scores). You may complete this lab in Code::Blocks, Sloeber, or by hand. Submit via the D2L dropbox by your last military obligation on 23 November**.**

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| #include <iostream>  #include <string>  #include <stdlib.h>  using namespace std;  class CAcademicCourse {  };  class CTOOP : public CAcademicCourse {  };  int main() {  cout << "TOOP Makeup Lab 6 (Last Lab!)\n";  } |

Your goal for this make-up lab exercise is to implement a class structure between Academic Courses and Toop.

1. Each instance of CAcademicCourse has a number of credits (consider that you can have half credits) and a name.
   1. You should implement a default constructor and a parameterized constructor with respect to these elements.
2. CAcademicCourse has a printInfo() method and a doExamination() method
   1. The doExamination() method will print the average grade for that examination as a random number anywhere from 70-85.
3. CTOOP extends from CAcademicCourse
   1. CTOOP will define itself as a child of CAcademicCourse with a name and a number of credits.
   2. CTOOP will override (redefine) the doExamination() method in order to change the average grade from 85-100.
4. You shall instantiate an academic course of your choosing (from CAcademicCourse) and one of TOOP (CTOOP) in your main method. You will print the information for both these classes and perform examinations on both.