

Sample Exam Week 0

CSE 232 (Introduction to Programming II)

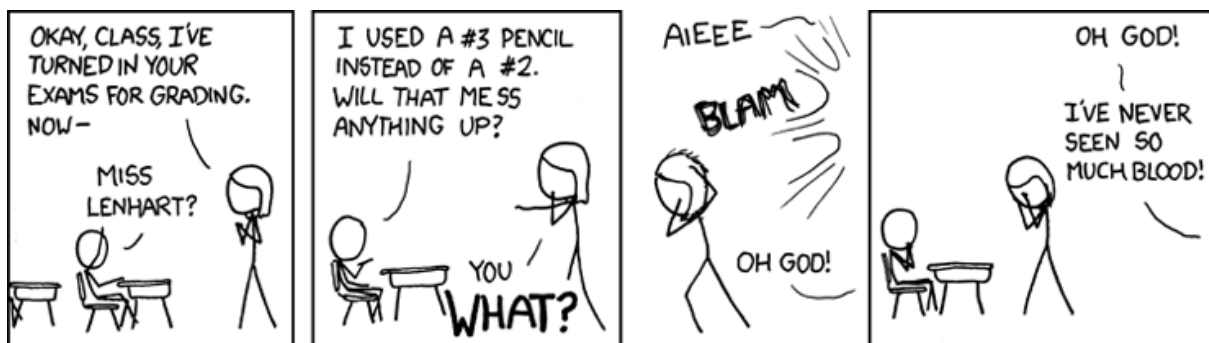
VERSION A

Full Name:

Student Number:

Instructions:

- DO NOT START/OPEN THE EXAM UNTIL TOLD TO DO SO.
- You may however write and bubble in your name, student number and exam **VERSION/FORM NUMBER** (with a #2 pencil) on the front of the printed exam and bubble sheet prior to the exam start. This exam is Version A. Your section doesn't matter and can be ignored.
- Present your MSU ID (or other photo ID) when returning your bubble sheet and printed exam.
- Only choose one option for each question. Please mark the chosen option in both this printed exam and the bubble sheet.
- Assume any needed `#includes` and `using std::...;` namespace declarations are performed for the code samples.
- Every question is worth the same amount of points. There are 55 questions, but you only need 50 questions correct for a perfect score.
- No electronics are allowed to be used or worn during the exam. This means smart-watches, phones and headphones need to be placed away in your bag.
- The exam is open note, meaning that any paper material (notes, slides, prior exams, assignments, books, etc.) are all allowed. Please place all such material on your desk prior to the start of the exam, (so you won't need to rummage in your bag during the exam).
- If you have any questions during the exam or finish the exam early, please raise your hand and a proctor will attend you.



<http://xkcd.com/499/>

1. How many points from multiple choice exams would this student receive if they got 65 points on Midterm Exam 1, 135 points on Midterm Exam 2, and 120 points on the Final Exam?
 - (a) Impossible to determine with the information given.
 - (b) 375
 - (c) 360
 - (d) 330
 - (e) 120
2. What is CSE 232's policy with regard to using AI (e.g. GitHub Copilot, ChatGPT)?
 - (a) They can be used, but only with attribution.
 - (b) They can't be used on exams as they aren't allowed resources.
 - (c) They can be used, but beware about using them in ways that deter learning.
 - (d) All of the above are true.
3. On which of the following assessments are students **NOT** allowed to collaborate?
 - (a) Lab assignments (synchronous)
 - (b) Lab assignments (asynchronous)
 - (c) Homework assignments
 - (d) Exams
 - (e) All of the above permit collaboration
4. The minimal C++ program in Section 1.2.1 has which of the following traits?
 - (a) Function definitions
 - (b) Import directives
 - (c) Variable declarations
 - (d) Include directives
 - (e) Overloaded functions
 - (f) Strings
 - (g) It has none of the above
5. Given the following function declarations, which of the following functions are overloaded?

```
void Jump();  
int Jump();  
void After(double a);  
void After(double);  
int Nice(string);  
int Nice(int);  
string Bark(string);  
string Bark();
```

 - (a) `Jump` is overloaded
 - (b) `After` is overloaded
 - (c) `Nice` is overloaded
 - (d) `Bark` is overloaded
 - (e) (a) and (b) are both true
 - (f) (c) and (d) are both true
 - (g) All of the functions are overloaded
 - (h) None of the functions are overloaded
6. Which of the following should always be cited if used as a source according to the syllabus?
 - (a) Peers that you collaborated with
 - (b) The page on vectors on CppReference.com
 - (c) The example code from Week 03
 - (d) The lecture in Week 06
 - (e) Section 1.2.1 from the required textbook
7. When are parameter names required in a function declarations?
 - (a) When the function declaration is overloaded
 - (b) When the function declaration has multiple parameters of the same type
 - (c) When the function declaration is ambiguous
 - (d) When the function declaration is included after the main function
 - (e) When the function declaration is also a function definition

8. What small incentive do we offer to motivate students to attend a synchronous (in-person or Zoom) lab session?
- (a) Extra credit points for participation
 - (b) Sneak peaks at the questions on the coding exams
 - (c) Solutions to homework problems in advance of the due date
 - (d) Full credit on the assignment regardless of progress
 - (e) None of the above
9. In the Preface of the required textbook, what does Stroustrup mean when he says the book isn't a layer cake?
- (a) He means that the book can be read in many different ways.
 - (b) He means that each "slice" of the book will have many different concepts.
 - (c) He means that the book won't be focusing on how the language has evolved over time.
 - (d) He means that his book isn't useful as a wedding dessert.
10. What namespace contains `cout`? Hint: see Section 1.2.1.
- (a) `STL`
 - (b) `main`
 - (c) `C++`
 - (d) `std`
 - (e) `iostream`
11. Why was the function call, `print(0,0)`, in Section 1.3 ambiguous?
- (a) Because `print` is a function provided in the standard library.
 - (b) Because there were only declarations of single parameter overloads of `print`
 - (c) Because `print` hasn't been declared before the function call.
 - (d) Because `(0,0)` could be interpreted as one number or two.
 - (e) Because `0` could represent an `int` or a `double`
12. What is the return type for a function that doesn't return anything?
- (a) `void`
 - (b) `null`
 - (c) Nothing, the return type is omitted
 - (d) `int`
 - (e) `None`
13. What advice is given to reduce errors in Section 1.3?
- (a) Use short function names
 - (b) Avoid overloading functions
 - (c) Including all function declarations at the start of the file
 - (d) Writing more functions and shorter functions
 - (e) Write function declarations that are also function definitions

