COSC 121: Computer Programming II

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A2 Feedback

- Common mistakes for Q1:
  - Missing constructor in Clothing class
  - MBAdult/BCAdult total() method missing call to super.total()
  - Clothing attributes not protected
  - No total() method in Children
  - Adult class total() method only returns price*GST (i.e., the tax) when it should actually return price * (1 + GST)
  - total() method not declared as abstract in Clothing (and therefore has a method body when it shouldn't)
  - Tax calculations, It should be super.total() + (price * pst) in MB/BC, but instead people kept trying to apply PST to the price INCLUDING GST
  - PST/GST not constants (usually missing final/static)

A2 Feedback

- Common mistakes for Q2
  - Not checking to see if <tt> tag actually exists in the line, then trying to take a substring, resulting in an attempt to take a substring at index -1
  - Related to above, instead of using while(scan.hasNext()) people just tried to use a for loop to iterate through the lines of the file, assuming there were the same number of lines as there were indices in the array they created (essentially only reading 33 lines of the file because that was what they initialized their array to)
  - Not checking to see if writing "-1" from array to file
  - Attempting to close the scanner in constructor, i.e., before it is used to read from the file
  - No error handling on closing the file

Things to Bring

- Allowed:
  - Two pencils
  - An eraser
  - Two pens
  - One sheet of 8.5" x 11" paper

- Not allowed:
  - No calculators of any kind
  - No cell phone

- Required:
  - Student ID card

Format

- Total: 5 questions (50 points total)
- Multiple choice (11 points)
  - Mixed of topics
- Short Answers (11 points)
  - Inheritance and interfaces
- Writing Code (28 points)
  - Polymorphism (10 points)
  - Inheritance and interfaces (10 points)
  - Linked list operation (8 points)

Instructions

- We will place the exam booklets face down on specific seats

- The exam starts only when we indicate so
  - If anyone starts earlier, the case will be treated as cheating

- The exam ends when we indicate "time's up"
  - If anyone stops later, the case will be treated as cheating

Instructions (cont.)

- No looking around, whispering, using any notes/books aside from the cheatsheet, copying from others, listening to audio, using the cell phone for any purpose
  - If any such behaviour is found, the case will be treated as cheating

- If you have a question, raise your hand and ask one of us!

Instructions (cont.)

- When you are done:
  - Show your student ID + sign out

- Remember:
  - Midterm is worth 20% of grade
- Missed midterm without valid medical note will receive 0

Questions?