Homework 1 Trends

September 11, 2022

Q1. i

What went well?

- Every student has correctly identified part-of relationships for the Sun Devil Sync software system so they have a clear understanding of it.
- Everyone has shown part-of relationships for at least 3 levels in their diagrams.
- There were a variety of answers. They varied in their selections and numbers of whole and part elements as well as the part-of relationships among them.

What went wrong?

- More than half of the students have mentioned element names that are not as described on the Sun Devil Sync site.
- In some cases, students did not mention whole and part-of elements.

Q1. ii

What went well?

- 30% of the class answered this correctly.
- The majority of students provided three hierarchy diagrams with at least two levels and three elements each.
- There were a variety of answers. They varied in their selections and numbers of whole and part elements as well as the is-a relationships among them.

What went wrong?

- More than half of the students have mentioned element names that are not as described on the Sun Devil Sync site.
- Nearly 15% of students have mentioned the part-of relationship between the elements as is-a relationship.

Q.iii

Not graded.

Q2. i

What went well?

- Almost every student provided a solution consistent with the sun devil sync system.
- Almost 40% of the class answered this correctly and clearly understood how complexity can take the form of hierarchy.

What went wrong?

- Half of the students have either provided an insufficient or improper explanation that does not clearly depict how complexity can take the form of hierarchy.

Q2. ii

What went well?

- Almost every student provided a solution consistent with the sun devil sync system.
- Almost 40% of the class answered this correctly.

What went wrong?

- Half of the students have either provided an insufficient or improper explanation of how the system is decomposable and can be divided into identifiable parts.

Q3.

Not graded.

Q4.

What went well?

- 40% of the students have answered the answer to this question correctly
- Most of the students have at least identified the main ideas from the paper correctly.

Common Mistakes:

- A good percentage of people did not stick to the 25-word limit. Better to be brief and concise if the question asks you to do that

- A good percentage of people identified the ideas that were not essential to Software Analysis and Design.
- A good percentage of people explained and identified just one idea. There were some missing concepts that should have been included in the answers.

Q5.

What went well?

- Around 37% of the students answered the question correctly. They have not only identified two out of six attributes of complex systems but did explain them well for the requested complexities of the automotive software.

Common Mistakes:

- A good percentage of people identified complex system attributes that are not adhering to the paper.
- A good percentage of people identified an attribute but couldn’t explain it well with respect to the automotive software complexities asked in the question.
- A good percentage of the people identified the attributes correctly but explained them partially.