

Software Engineering COMP433

Tutorial -1- Good attributes of Software

1. Which of the following systems, you would describe as dependable. Justify your Answer.

- a) A banking system that has a failure rate of %2 in a year.
:?
- b) A security system that has a 99% reliability.
:?
- c) A system that requires 25 days of user training before users are able to use it.
:?
- d) A Banking system that serves an international bank and allows only a 1000 concurrent users to access the system
:?

2. If you were a manager responsible to buy a system for your company to manage university student registration, and were offered the choice of two systems. The first system, A, is only \$100k to buy but requires \$1k for an annual system support cost. It requires 100 days training and comes with a new version every year. The second system is only \$40k to buy, but requires \$3k in annual system support cost. It requires 30 days user training and is updated with a new version every 2 year. In your opinion, which of the two systems has:

- higher maintainability
- higher dependability
- higher efficiency
- higher acceptability
- higher usability

Write these in a comparison table. Justify your answer for each of the above properties.