VIa/Dip    Software Engineering I

2000

Computer Aided Software Engineering (CASE) tools are designed to help developers manage complexity. Describe two ~~different~~ *what are the main* types of complexity ~~must~~ such a tool *must* deal with?

(4 marks)

What are the ~~media~~ tools traditionally used to manage each type of complexity?

(6 marks)

Describe ~~briefly~~ one case history ~~of~~ in which a serious failure was caused by each Type, ~~and~~ ~~indicate what features~~

(10 marks)

Model answer.

Incidental and intrinsic complexity.

High level languages; development methodologies

Incidental complexity failures : Patriot missile, Therac-25

Intrinsic complexity failures : LAS . Perhaps one of the redundancy case histories.