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method specifications describe the behavior of a method in terms of its preconditions and postconditions note that method specifications may refer to abstract states method arguments and global variables also known as public static fields but never to the concrete fields of the implementation the client should not need knowledge of method specifications describe the behavior of a method in terms of its preconditions and postconditions note that method specifications may only refer to specification properties method arguments and global variables also known as public static properties never to the concrete properties of the implementation the specification of a method is the definition of the following the prototype of the method to define the parameters of the method and their type the preconditions are what conditions should be fulfilled before the method procedure could start the postconditions are what conditions are guaranteed on the outputs of the method a specification of a method defines what a call on a method does the specification should be precise complete and as clear as possible so that you don't have to look at the method body in fact every method should have a specification and you should never have to look at the method body when writing a call on a method eecs 219c formal methods specification verification and synthesis spring 2024 short cuts description prerequisites books grading projects schedule tools general information instructor sanjit a seshia office cory 566 class hours and location monday and wednesday 1 2 30 pm 299 cory the term formal methods is used to refer to any activities that rely on mathematical representations of software including formal system specification specification analysis and proof transformational development and program verification all of these activities are dependent on a formal specification of the software specifications are good for the implementer of a method because they give the implementer freedom to change the implementation without telling clients specifications can make code faster

too we ll see that using a weaker specification can rule out certain states in which a method might be called so as i understand the method specification includes package name package com site project e g method signature methodname int n string str access specifiers private protected default or public type of return value static identifier if the method is static and does not belong to instance formal methods for software specification and analysis an overview software engineering and formal methods every software engineering methodology is based on a recommended development process proceeding through several phases analysis specification design coding unit testing integration and system testing maintenance formal methods can standard method standard method the best current practice or approved procedures for measuring a specific value property or material home browse by title books specification and validation methodsseptember 1995 editor egon börger publisher oxford university press inc 198 madison ave new york ny united states isbn 978 0 19 853854 7 published 14 september 1995 pages 440 available at amazon save to binder export citation bibliometrics downloads cumulative 0 method versus end spec world wide highway construction specifications fall into three basic types where compaction operations are concerned the methods specification gives detail rules and specifications regarding type of equipment number of passes and roller speed related to material and layer thickness a specification often refers to a set of documented requirements to be satisfied by a material design product or service 1 a specification is often a type of technical standard there are different types of technical or engineering specifications specs and the term is used differently in different technical contexts method specifications a method specification outlines a specific materials selection and construction operation process to be followed in providing a product in the past many construction specifications were written in this manner formal specification in computer science formal specifications are mathematically based techniques whose purpose are to help with the implementation of systems and software they are used to describe a system to analyze its behavior and to aid in its design by verifying key properties of interest through rigorous and effective reasoning tools standard methods access 400 methods vetted by experts over 50 000 water professionals worldwide trust standard methods for water and wastewater analysis techniques a trusted source

of accurate proven methodology analysts researchers and regulators have relied on this peer reviewed content since 1905 learn more the process specification sheet is the name of a standard sheet included in api 660 appendix d used for hex specifications it describes processes and preferences key fields where service is defined are designers can choose from four specifying methods as described by csi descriptive performance reference standard and proprietary although the methods are distinctly different their use can be mixed within a single project depending on the product being specified and the objective of the specification

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a specification of a method defines what a call on a method does the specification should be precise complete and as clear as possible so that you don't have to look at the method body in fact every method should have a specification and you should never have to look at the method body when writing a call on a method

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method versus end spec world wide highway construction specifications fall into three basic types where compaction operations are concerned the methods specification gives detail rules and specifications regarding type of equipment number of passes and roller speed related to material and layer thickness

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a specification often refers to a set of documented requirements to be satisfied by a material design product or service 1 a specification is often a type of technical standard there are different types of technical or engineering specifications specs and the term is used differently in different technical contexts

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