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Testing in software development

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Testing in terms of programmatic tests has become a vital part of software development. Companies and individuals have been using it to gain confidence in their applications' correctness, avoid repeating the same mistakes over and over and test their applications with inputs that are rare and the applications need to deal with them nonetheless.

Testing, in the form of writing unit tests, integration tests, end-to-end tests or any other kind should be a skill of every programmer who takes their job seriously enough and wants to deliver an application with a certain level of robustness.

Let us have a look at examples of how to write simple tests of various kinds, the challenges it brings, the benefits and how (and if) it has an impact on the code of our applications. Let us discuss how and if is this component of software engineering used by mathematics researchers, how useful it may actually be in this field and how people actually deal with the difficulties of how to test something when we don't know exactly what it is supposed to do.

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