I. Codebase

What is a codebase, source code repository, and a version control system?

- In software development, a **codebase** refers to a whole collection of source code that is used to build a particular software system, application, or software component.

- A codebase includes only **human-written source code files**; thus, a codebase usually does not include source code files generated by tools (generated files) or binary library files (object files).

- It generally does include **configuration and property files**, as they are the data necessary for the build.

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- A codebase is typically stored in a **source control repository** that belongs to a **revision control system**.

- A source code repository is a place where large amounts of source code are kept, either **publicly or privately**.

- Source code repositories are used for **backups** and **versioning** to handle various source code versions and to provide aid in **resolving conflicts** that arise from developers submitting overlapping modifications.

- Subversion, Git and Mercurial are examples of popular tools used to handle this workflow, which are common in **open source** projects.