Fill in the blanks below such that the tsconfig.base.json is used as a base configuration for this tsconfig.json file.

```
{
    "extends ": "./tsconfig.base.json "
    compilerOptions: {
        "noUnusedLocals": true
    }
}
You got it!
```

What is the purpose of the tsc command line interface?

The tsc command instructs a code editor to surface errors inline or in the editor's problems panel.

The tsc command displays whether a file can be made into valid JavaScript.

The tsc command creates TypeScript files, which later can be type checked and transpiled by a code editor.

The tsc command type checks and transpiles TypeScript files.



You got it! The tsc command is TypeScript's command line interface and it type checks and transpiles existing TypeScript files into JavaScript files.

Using the tsconfig.json reference as your guide, what does the noImplicitAny option do?

The noImplicitAny option ensures that only TypeScript files are used in the project.

The noImplicitAny option ensures that all functions return a result, instead of returning nothing.

The noImplicitAny option ensures that all variables are either assigned a type explicitly or that TypeScript can infer a type more specific than any.



That's right! The noImplicitAny makes sure that TypeScript can infer a more specific type than any. If it cannot, it requires the developer to specify a type.

The noImplicitAny option disallows defining a variable's type as any.

The image shows a TypeScript error inside of VSCode's problems panel. Identify (1) which file contains the TypeScript error and (2) which type definition the error is erroring against. ∨ s index.ts 1 ∨ ⊗ Type 'string' is not assignable to type 'number'. ts(2322) [Ln 20, Col 5] getSunriseAndSunset.ts[Ln 4, Col 3]: The expected type comes from property 'latitude' which is declared here on type 'Options' (1) index.ts, (2) string (1) getSunriseAndSunset.ts, (2) Options (1) index.ts, (2) latitude (1) index.ts, (2) Options Very good! The index.ts file has a variable that is typed as a string while the Options type expects a number. We'd like TypeScript to check for and warn us if any unused parameters exist in a TypeScript file. Fill in the blanks below to complete the code such that tsc will check for unused function parameters. Check the documentation to find the proper configuration option. -noUnusedParameters You got it!

What is the result of running tsc --init?

The tsc --init command tells a code editor to evaluate the files in a given directory as TypeScript files.

The tsc --init command creates a tsconfig.json file containing several default options.



Way to go! The --init option sets up a tsconfig.json file where we can define TypeScript options.

The tsc --init command creates an index.ts file, which we can use as our first TypeScript file in a project.

The tsc --init command provides a set of pre-made templates to choose from to start a TypeScript project.

Why is it favorable to install TypeScript inside of a project's dependencies instead of running a global instance of tsc to type check and transpile a TypeScript project?

When a project uses its own installation of typescript, code editors can display TypeScript errors inline or in the editor's problems panel.

When a project uses its own installation of typescript, it can use two separate versions of TypeScript, which allows us to ensure the code will run on many different computers.

When a project uses its own installation of typescript, it contains the typescript version it needs and will continue to work even when the global instance of tsc is upgraded.



Well done! As new versions of TypeScript are released, local installations of TypeScript ensure projects will continue to work.