Create a Code Fix Using Test Driven Development (TDD)

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Planning
TDD

Code Fixes

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Using Separate Files/Projects for Target Code

Quoted Code

- Avoids naming collisions
  - Especially before and after examples

Neither approach requires that the target code compile

Separate Files and Projects

- Can edit/debug (usage "feel")
- Smoke test command line build
- Multiple tests against same source
- Syntax checking (correctness)
- Colorization (comprehension)
- Avoids line counting
- With convention, can reuse tests
- Can have alternate references

Editable Test Infrastructure

Runs diagnostic analyzer

Assert analyzer results and locations

Assert all code fix results

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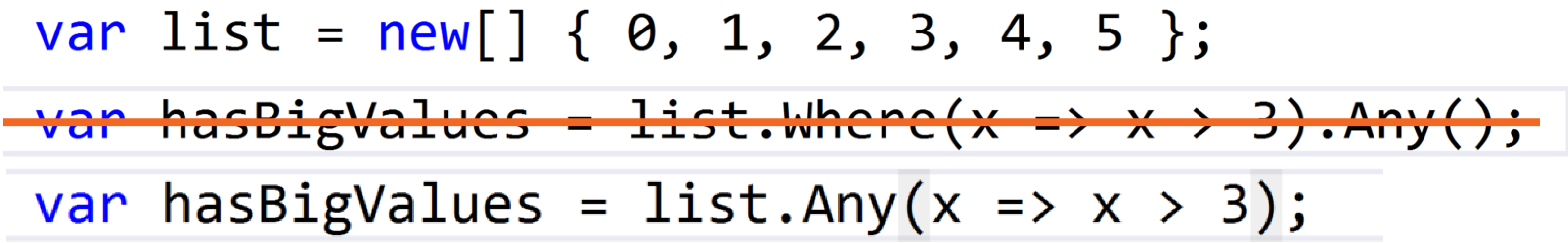
Remove Where Clause Analyzer with Code Fix

http://github.com/code-cracker/code-cracker



```
var list = new[] { 0, 1, 2, 3, 4, 5 };
```

~~`var hasBigValues = list.Where(x => x > 3).Any();`~~

```
var hasBigValues = list.Any(x => x > 3);
```

- Desired approach stops on first match

Summary

Planning TDD

Code Fixes

For Analyzers

- Define code that does and does not trigger
- Creation & testing easier with separate files

For Code Fixes

- Create new document with changes

Lots of examples! It’s a great place for TDD

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