

# PROVE IT

## C# ALGORITHMS & DATA STRUCTURES

### RULES CHALLENGE

#### GOAL

Create a `PersonModel` (`FirstName`, `LastName`, `PostalCode`). Then create a method called `ApplyRules` that prints out one or more statements depending on the `Person` passed in:

- If `LastName` is `Corey` but `FirstName` not `Tim`, print “Possibly related to Tim Corey”.
- If initials are `TC`, print “Same initials as Tim Corey”.
- If `PostalCode` starts with `18`, print “In the same general area as Tim”.

Make sure that the system will print out more than one statement if more than one check matches.

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### BONUS

Create a CompanyModel (Name, PostalCode) and, using the same ApplyRules method, perform the following checks:

- If Name contains “Corey” but not IAmTimCorey, print “A company owned by a Corey”.
- If Name is IAmTimCorey, print “Tim’s Company”.
- If PostalCode starts with 08, print “A company in New Jersey”.

Write the ApplyRules method in such a way so that it does not need to be modified for every new rule (or model type).