

Developer Candidate Assignment

PROBLEM #1

Given the following interface:

```
public interface IAccountService
{
    double GetAccountAmount(int accountId);
}
```

...and the following class that depends on this interface:

```
public class AccountInfo
{
    private readonly int _accountId;
    private readonly IAccountService _accountService;

    public AccountInfo(int accountId, IAccountService accountService)
    {
        _accountId = accountId;
        _accountService = accountService;
    }

    public double Amount { get; private set; }

    public void RefreshAmount()
    {
        Amount = _accountService.GetAccountAmount(_accountId);
    }
}
```

REQUIRED: Write a unit test that asserts the behaviour of `RefreshAmount()` method.

PROBLEM #2

It has been determined that `IAccountService.GetAccountAmount()` is a potentially slow and unreliable remote network call and that it should be made asynchronous. Note that

`AccountInfo.RefreshAmount()` may be invoked multiple times concurrently. Adjust `IAccountService` and / or `AccountInfo` and your tests accordingly.

PROBLEM #3

Write a build script. Consider compilation, test execution and producing a nuget package.