

Description

This program will compute a basic, estimated 2017 tax for a given single filer's income.

Requirements

- Use the following **Main** method. Copy/paste into your code.

```
public static void Main()
{
    // Retrieve the income and display the tax
    Console.WriteLine("2017 income tax: {0:C}",
                      ComputeTax(GetIncome()));
} // end Main
```

- Create a method named **GetIncome** (either static or non-static) in the same class as Main.
 - This method will prompt for, retrieve, and return the 2017 income (as a decimal) entered by the user.
 - It has no formal parameters.
 - **Include external method header documentation:** Follow the pattern presented in some of the note's examples as well as in the annotated style guide shown online. (You will only need to write a brief description and complete the @return description for this method.)
 - Internal comments are not required in this method.
- Create a method named **ComputeTax** (either static or non-static) in the same class as Main.
 - This method will return the income tax for a single filer's income.
 - It has one formal parameter that will take a decimal value representing the single filer's taxable income.
 - Here is the algorithm that will compute the tax:
 - **10%** on taxable income from \$0 to \$9,325, **plus**
 - **15%** on taxable income over \$9,325 to \$37,950, **plus**
 - **25%** on taxable income over \$37,950 to \$91,900, **plus**
 - **28%** on taxable income over \$91,900 to \$191,650, **plus**
 - **33%** on taxable income over \$191,650 to \$416,700, **plus**
 - **35%** on taxable income over \$416,700 to \$418,400, **plus**
 - **39.6%** on taxable income over \$418,400.

For example, if your taxable income were \$48250, your tax would be
 $(\$48250 - \$37950) * .25 + (\$37950 - \$9325) * .15 + \$9325 * .1 = \7801.25

 - You are not required to create named constants for any numbers. You may just "hard-code" them in. However, **recall the first step we learned for binary promotion in arithmetic expressions:**
If either operand is of type decimal, the other operand is converted to type decimal, or a binding-time error occurs if the other operand is of type float or double.
To get around this error you will likely need to explicitly cast numeric literals with a decimal point to a decimal or attach the letter M on the right side of the number.
 - **Include external method header documentation:** Follow the pattern presented in some of the note's examples as well as in the annotated style guide shown online. **The assumption (precondition) to also include is that the income sent to this method is >= 0.**
 - **Internal comments are also required in this method.**
- Follow all coding guidelines (including class header comments) and remember to insert comments as discussed.
- Match the input prompt shown in the sample runs on the next page.

```
C:\WINDOWS\system32\cmd.exe - [X]
Enter 2017 income: $8000.67
2017 income tax: $800.07
Press any key to continue . . .

C:\WINDOWS\system32\cmd.exe - [X]
Enter 2017 income: $37950
2017 income tax: $5,226.25
Press any key to continue . . .

C:\WINDOWS\system32\cmd.exe - [X]
Enter 2017 income: $37951
2017 income tax: $5,226.50
Press any key to continue . . .

C:\WINDOWS\system32\cmd.exe - [X]
Enter 2017 income: $91900
2017 income tax: $18,713.75
Press any key to continue . . .

C:\WINDOWS\system32\cmd.exe - [X]
Enter 2017 income: $187500
2017 income tax: $45,481.75
Press any key to continue . . .

C:\WINDOWS\system32\cmd.exe - [X]
Enter 2017 income: $410000.55
2017 income tax: $118,699.43
Press any key to continue . . .

C:\WINDOWS\system32\cmd.exe - [X]
Enter 2017 income: $416701
2017 income tax: $120,910.60
Press any key to continue . . .

C:\WINDOWS\system32\cmd.exe - [X]
Enter 2017 income: $500123
2017 income tax: $153,867.56
Press any key to continue . . .
```

Submission

- Before Class: Print and upload the source code to D2L
- Beginning of class: Turn in the source code