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Dis 1C

1. My first obstacle was figuring out how to tax salaries that were over $50000 and less than $120000 in a way that taxed the first $50000 at 4% and then taxed the rest based on your occupation. My code at first would take salaries that were over $50000 and apply the tax percent meant only for the amount made past $50000 to the whole amount. After a few adjustments, I figured out how to divide the taxable income into the three tiers. I also was stuck on how to subtract the tax deduction from the total amount of tax in the final line of code while still making sure it remained to be a nonnegative number, but for this issue, I simply added a new variable and if statement to check for this condition before printing it to the user.
2. **(Jon, 0, bartender, 4)** *Jon would pay $0.00*

- to test that the final amount will never be negative

**(Sam, 70000, bartender, 0)** *Sam would pay $3200.00*

- tests that the code taxing salaries above $50000 is correct

**(Em, 123289.328, engineer, 5)** *Em would pay $5796.04*

- tests that decimal precision is working

- complex example that tests salary above $120000, engineer tax, and no children tax deduction because of the salary cutoff

**(Ashley, -32000, engineer, 3)** *The taxable income must be nonnegative*

- tests error line

**( , -4, , -4)** *You must enter a name*

- tests multiple errors and makes sure that it only prints the first one

**(Nick, 76009.3, bartender, 2)** *Nick would pay $3160.56*

- tests tax deduction with children