CS 2250 Lab #3
Branches

The 2006 federal income tax form 1040EZ has 13 lines. (The 1040REALEZ is even shorter: How much money did you make? Send it in.) That form is further simplified to form the following problem (each step corresponds to a line number):

1. Prompt for the total wages, salaries, and tips.
2. Prompt for taxable interest; if this amount is greater than $1500 you cannot use Form 1040EZ (print this message and end the program)
3. Prompt for unemployment compensation
4. Add lines 1, 2, and 3; this is the adjusted gross income
5. Calculate the standard deduction
   a. Can someone claim you or your spouse as a dependent?
      i. Enter ‘y’ or ‘n’ for you (read in as a char)
      ii. Enter ‘y’ or ‘n’ for your spouse (read in as a char)
      iii. add line 1and $300
      iv. calculate the larger of 5.a.iii and $850
      v. your standard deduction is the smaller of 5.a.iv and %10,300
   b. if no one can claim you or your spouse (i.e., you entered ‘n’ for yourself and your spouse) then your standard deduction is $16,900
6. Subtract the result of line 5 from line 4
7. Enter federal income tax withheld
8. Taxable income = 15% of line 6 (truncate this to an integer value)
9. If line 7 is larger than line 8, subtract line 8 from line 7. This is your refund (print this out)
10. If line 8 is larger than line 7, subtract line 7 from line 8. This is the amount that you owe (print this out)

Create a flowchart showing the logic needed to solve the problem and write a program named “tax1040ez”. Each prompt is a printf and scanf pair. Store intermediate calculations as int variables named line1, line2, etc. All logic can be done with if-statements.

Upload your flowchart (choose an appropriate name) and your program to WebCT.