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/ Why and How to Do Your Taxes with Open Tax
Solver

# Why and How to Do Your Taxes with C Solver

I have previously explained how to use a free open source accounting program GnuCash at this link: https://futuretechbizclub.org/course-2-organize-your-business-accounting/lesson-2-3-how-to-keep-track-of-business-funds

In this article, I will review an open source tax preparation program called (OTS). OTS is a free, secure and easy-to-use program for calculating and Federal taxes (it also does some state taxes). OTS includes updated versi Schedules A, B, C, D, and for several states. OTS provides a simple graph quickly filing out your tax forms.



# Why You Should Consider Doing Your Taxes with OTS

Perhaps the biggest advantage of OTS is that it is the best way to protect data. You should be aware that, due to open back doors present on all Wir is simply not safe to store your data including bank accounts and passwore

computer. Because of this problem, many people have switched to the free-Linux platform. Unlike many commercial programs, OTS is available in a v Linux computers. (note: OTS is also available for Windows and Mac comp you have not yet made the change to Linux).

Equally important for the security of your data, OTS is an open source properties that of the code has been inspected to reduce the chances of vulnerabilities that of hackers.

In addition, none of your data is stored on any server or by any commercial stored only on your own personal computer and under your complete cont ever entered into any web based data system. Thus, it is the perfect altern web based programs – including the IRS e filing program.

By contrast, when using web based programs, you have no idea who is gethey are storing it and whether or not it will eventually wind up in the hands year, millions of people have their data stolen by hackers. The only way to problem is to not put your personal and business data on the Internet in the

Another benefit of OTS is that it is free for personal and commercial use. It business that generates some of your income and you need to fill our Schedule C-EZ, you can do this with OTS without paying any fees.

By contrast, virtually all commercial tax programs that offer a free option, refor filing even a small amount of business income. Commercial tax prep prother situations where you will need to pay a fee even if you have no busing includes things like charging if you have dependents, charging to file scherocharging if you make over a certain amount, charging you for the child tax income credit, the elderly or disabled credit, charging you if you have alimochargeness, student loan interest, retirement contributions, dependent care elearning credit, landlord expenses, freelance expenses, charging if you have list is endless).

Most commercial programs also use bait and switch tactics. For example, filling out a free version and spend an hour or more filling out a form only to very end that to download or submit your tax forms, it will cost you \$50 to \$

want to pay for the Bait and Switch, you need to start all over with a differe program.

A unique important benefit of OTS is that it is a **community based projec** to create additional forms to the project to share with the community, there process where you can contribute in a way that benefits everyone.

The biggest drawback of OTS is that it does not yet include calculations fo case forms such as Form 8863 Educational Credits, or the Social Security Child Tax Credit Worksheet. However, because it is a community based pr other special case forms can be added by anyone who would like to contri In the meantime, if any special cases apply to you, you should complete the before you start OTS to complete your 1040 form. Below are instructions for several common special case forms.

Here is a table summarizing the most important **benefits of OTS compare commercial tax programs.** 

Features for	OTS	Turbo	Tax	ŀ
Free versions		Tax	Act	E
Covers 1040 and includes Schedule A B C and D	Yes	Only 1040E	Zsimple filings	٤ f
Updated annually for new tax rules	Yes	Yes	Yes	)
Supports all computer platforms	Yes	No	Yes	1
No registration required to access the free program	Yes			
Free version not restricted to personal use	Yes			
Source code available	Yes			
Really free for all uses	Yes			
Data only stored on your computer	Yes			

PDF printable forms easily modified Yes

with LibreOffice

Community based project you can Yes

contribute to

Includes calculations for special cases No

Saves filed taxes online No Yes Yes

A final benefit of OTS is that it can empower you to a better understanding code. You can run as many trial tax situations as you want in order to dete to lower your tax burden – both for the current tax return and to assist you returns. Thus, even if you have the money to pay for a professional to do y may find it better in the long run to learn how to do your own tax returns wi

# Notes on Comparison of free tax preparation programs

**Turbo Tax** offers a free version that lets you file a Form 1040 (EZ version schedules 1, 2 or 3. You would need those schedules to report things like I alimony, deductible student loan interest, certain retirement contributions, at tax, the credit for dependent care expenses, the Lifetime Learning Credit control. If you plan to itemize, were a landlord, freelanced or ran a small but other situation going on that requires filing one of these separate schedule upgrade to a paid version. Sadly, the Turbotax free version is very limited at version is one of the most expensive options. Also, you may not use Turbot returns, schedules or worksheets on a professional basis (ie. for a prepare

Tax Act offers an over-the-internet fill out form option that lets you file Forr schedules 1, 2 or 3. Those schedules are key in the process of reporting the business income, alimony, deductible student loan interest, certain retirem alternative minimum tax, the credit for dependent care expenses, the Lifeti or the Saver's Credit. Small business, capital gains, rents or farm income reversion. That means if you plan to itemize, were a landlord, freelanced or rebusiness, or had any other situations that require filing one of these separaneed to upgrade to a paid version. Tax Act is also limited to consumer's penot apply if consumer uses Tax Act to prepare returns for other persons.

**Tax Slayer** offers a free version that lets you file a simple Form 1040 EZ fc complete form), and not schedules 1, 2 or 3, which are important in the prothings such as business income, alimony, deductible student loan interest, contributions, alternative minimum tax, the credit for dependent care experimental Credit or the Saver's Credit. And TaxSlayer imposes added requifere: Your taxable income must be under \$100,000, you have to file as single and you cannot claim dependents.

**H & R Block** Free version includes schedules 1, 2 and 3 in some situation other commercial programs, the free version is really limited to very simple that you know the benefits of Open Tax Solver, let's take a look at the step Tax Solver to calculate and submit your federal taxes.

#### How to file your taxes with Open Tax Solver

**Disclaimer:** I am a teacher and not a professional tax accountant. If your is accountant tells you something different or you read something different in then listen to the professionals and not to me. I am merely explaining how Solver and how I teach it to my students.

# **Step 1: Gather all of your tax documents.**

Most tax documents must be mailed to you by the end of January each ye documents may not arrive until late February. So March is a good month to

These tax documents might include:

#1 W2 forms from any employers you worked for as an employee.

#2 1099 Taxable Interest Income statements

#3 1099 SSA Social Security Income statement

#4 1099 – MISC Consulting and other business income.

#5 9595 - Book Royalty Misc Income to report on Schedule E

#6 1098 T Student Tuition expenses (deductible even if not itemizing dedu

#7 1098 E Student Loan Interest (deductible even if not itemizing deductio

#8 1098 Mortgage Interest Paid if using Schedule A to itemize deductions.

#9 Other deductions from contributions to churches and 501c3 organizations.

#10 Extreme medical expenses if using Schedule A to itemize deductions.

#11 1095 C Employer Provided Health Insurance Coverage Verification

Copies of these documents should be attached to the end of your tax retur

#### **Step 2: Download the current IRS Tax Preparation Booklet**

Once you have your tax documents, you should download a couple of add before starting your taxes. OTS is intended to be used with the IRS annua this monster is 108 pages long. The good news is that you will only need to of it and OTS will do all of the actual calculations for you. Here is a link to courrent version: https://www.irs.gov/pub/irs-pdf/i1040gi.pdf

You should also download the current year IRS form 1040. Here is the link https://www.irs.gov/pub/irs-pdf/f1040.pdf

It is also useful to have a copy of your previous years tax return as it is like will be similar to your previous years return.

It is also helpful to download and print out a hard copy of form 1040 as we forms you will be completing such as Schedules 1, 2 and 3.

Also if you have business expenses, you should download and print out a Schedule C, Schedule SE and form 8995.

I also printed out Schedule E (supplemental income), the Social Security V Publication 915 Page 16), Educational Credits form 8863 and Child Tax Cr which is pages 6 and 7 of IRS Publication 972.

# **Step 3: Download Open Tax Solver**

Go to this page:

https://sourceforge.net/projects/opentaxsolver/files/OTS\_20

Then download the version for Linux 64:

For Linux - Jan 28, 2021

<u>OpenTaxSolver2020 18.00 linux32.tgz</u> (5.4-MB) <u>OpenTaxSolver2020 18.00 linux64.tgz</u> (5.5-MB)

- Package is a gzip'd tar-file. To unpack, tar xfz OpenTaxSolver2020\_18.00\_linuxXX.tgz
- Unpacks into a directory of similar name.
- Start by double-clicking or running: ./Run\_taxsolve\_G

This will place a compressed version of the program in your Downloads fo manager.

Then create a new folder called 2020 Taxes and transfer the program to the uncompress it with a right click and click on **Extract Here**. Then open the click on **Run Tax Solve GUI** to open it. Below is what the opening screen



Step 4: Complete any Special Case Forms Before Starting you

If you have any business income or expenses, select US 1040 Schedule C Schedule C first. (see Step 14)

Also complete Schedule SE (see Step 15)

Then complete Form 8995.(see Step 16)

Then complete Schedule E. (see Step 17)

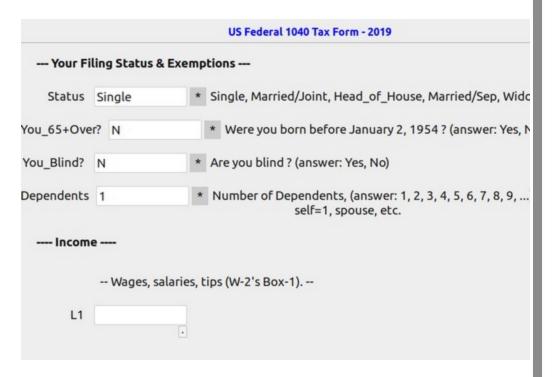
Then complete the Social Security Worksheet 1 (see Step 18)

Then complete the Educational Credits Form 8863 (see Step 19)

If you have dependents, you should do the Child Tax Credit Worksheet after the other special case forms but before completing your 1040 form. (see S

# **Step 5: Open a New Tax Document**

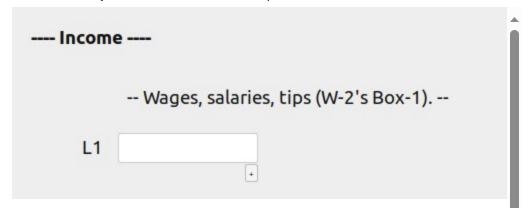
To do the common Federal 1040 tax return, select **US 1040 (with Schedu** Then click **Start New Return**. This screen will appear.



Use the drop down to select your filing status, age bracket and number of are not sure if you can claim a child as a dependent, you can read the IRS on dependents.

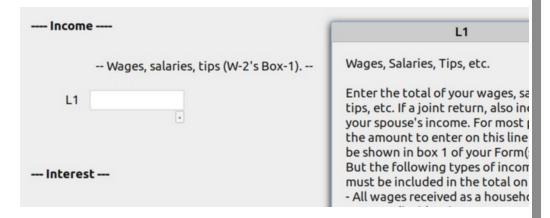
# **Step 6 Complete Income Section**

There are several types of income. This includes Income, Interest and sev is from Line 1 of any W-2 forms you have.



If you have two jobs and two W-2 forms, then click on the Plus sign (+) jus to create a second L1 box. The number you enter is from your W-2 Line 1. a comment, click on the plus sign to the right of any box.

To learn more about what to enter, click just to the right of most boxes to b screen:



Taxable Interest: Enter the total from any 1099-INT forms you have.

Other Income: IRA Distributions, Pensions, etc: Your retirement account at able to help you with these lines.

Social Security Benefits: Enter the amount from box 5 from the SSA – 109

Qualified Business income deduction: If you have a business, you likely cathe income on this box. But for now, leave it blank until after you have com C or form C-EZ.

Child Tax Credit: Consult the IRS Manual on this one.

Federal Income Tax Withheld: Amount from Box 2 of your W-2 forms.

#### Step 7: Complete Schedule 1 Additional Income

There are several types of additional income. If you have a small business complete Schedule C or Schedule C-EZ. Your business income and exper on this form. Only the total (income minus expenses) is entered on the S1

For now, we will leave this box blank and fill it in after we discuss Schedule tutorial.

If you rent a part of your house, then fill out Schedule E which is the Renta rental expenses. If you have a farm that generates income, fill out Schedul Unemployment Income, then it goes in the box S1\_7.

#### **Step 8: Complete Adjustments to Gross Income**

Educator expenses: Teachers often spend massive amounts of their incor or on educator training. Consult the IRS manual for what to put here.

Deductible Part of Self Employment Tax: If you are self-employed, you nee Complete Schedule SE. We will leave this blank and cover self employment C.

You can also deduct money you put into an IRA, student loan interest and you went to school.

# **Step 9: Complete Tax and Credits**

You have two options. You can itemize deductions by completing schedule the standard deduction. If you do not earn a lot of money, or own an exper big mortgage, you may be better off talking the new and much larger stanc itemizing all of your deductions. You can try it both ways. But to itemize no deductions need to more than \$12,200 for an individual, or more than \$18, household or more than \$24,400 for a married couple filing jointly and mor retired individual and more than \$27,000 for a retired couple. Our standard 24,400 plus 1,300 since only I am retired while my wife is not. For our first leave these boxes blank and see if OTS determines the standard deductio also leave Schedule 2 and 3 blank for now. We will also leave Auto file bla fill this section in when we are ready to print our final form.

# Step 10: Save your 1040 form

After you finish entering all your data and filling out the entire form, save it

the Save button at the bottom of the screen. Give the file a descriptive nan US 1040 2019 version 1.



Click OK to save the text file.

#### Step 11: Computer your tax and fix any errors

After you save the file, click **Compute Tax** at the bottom of the screen. A s **Results** will appear. Scroll to the bottom of the screen. It will indicate the total payments and the amount of any refund or remaining amount still due mistake, often it will appear as a Data Error at the bottom of the Preview R preview also reports your marginal tax rate and what percentage of your ir paying in taxes.

# Step 12: Complete Schedule A to see if itemizing deductions is greate standard deduction

Line 4: Enter this amount only if your actual medical expenses were greate your total income.

Line 5a: Enter the amount of state income and sales tax you paid.

Line 5b: Enter the amount of real estate taxes you paid.

Line 5d: Enter the total of Lines 5a and 5b.

Line 5e: If 5d is greater than the allowed amount, enter the allowed amour enter the amount from Line 5d.

Line 7: enter the amount from Line 5e.

Line 8a: Enter the home mortgage interest here and on line 10.

Line 11: Enter gift amounts to 501c3 charities here. If over \$500, include F enter on Line 14.

Line 17: Total of Line 7, 10 and 14. If this amount is less than the standard not itemize deductions.

# Step 13: Print forms to sign and mail

If you do not have any business income, you may be done. If this is the ca **PDF Forms,** and it will provide printable tax forms with all of your information

entered your name, address, and social security number when entering your information will also appear in the right places on the form. Double-check compare it with your previous years tax form and mail your tax return the your forms to the IRS is a much more secure option than e-filing.

#### Part II Instructions to Complete Special Case forms

Step 14: If you have business income, complete Schedule C or C-EZ. Close the results screen. Also exit the program. Then start it again and this Schedule C. Then click Start New Return. If you completed Schedule C t you should also compare the current year to the previous year Schedule C download the IRS manual for Schedule C. It is 18 pages long. https://www.pdf/i1040sc.pdf

You should also print out the actual Schedule C to see what the final result is the link for this. https://www.irs.gov/pub/irs-pdf/f1040sc.pdf

I used Schedule C-EZ in the past. However, form C-EZ is limited to busine than \$5,000. Since I had business expenses of more than \$5,000 this past need to fill out Schedule C.

#### **Your Business Information**

You do not need a Business Name or Business EIN to complete schedule However, if you have employees and or want a business bank account or payments, you should file your business with the state and also get a fede business type is an informal sole proprietorship. Just enter your name and number. For principal business, I called it Consulting – which is a service to business name blank. I used my personal address as my business address activity code for consulting is 541990.

**Accounting Method:** If your business is very small, you can use the cash accounting where you just pay as you go and declare expenses as they or have to worry about calculating depreciation. My business is very small an **cash method** of accounting.

# **Income and Expenses**

Gross Receipts: Enter the total of all of the money your business made ir

**Advertising Expense:** Enter your advertising expense on Line 8.

#### Should you complete the business mileage section?

You currently can deduct 58 cents per mile for every business mile you drivand from your place of occupation. Do not enter this on Line 9 (which is for expenses). Instead, just enter your total business miles in the Miles box for program will calculate the total business expense for these miles.

Office Expense: Should you declare a Business Office in your home? You can deduct the cost of your home office at \$5 per square foot up to a per year. It must be used exclusively for your business. You can alternative cost of your home office including deducting a portion of your energy bills a This is only useful if your home office takes up a significant fraction of your willing to keep very accurate records of all of your home expenses. If you useful of calculating business use of home, you need to complete form 8 result on Line 30.

Supplies (not in Part III) Line 22 Put items here that are not inventory

Part III Inventory This is for those whose business requires an inventory.

**Total Business Expenses** Total business expenses include Advertising, N Supplies and Inventory and whatever else you spent money on to support

Business income or profit equals total income minus total expenses.

This amount is used for Schedule SE and for form 1040.

# Step 15: Complete Schedule SE to determine your self employment to

Download the instructions for IRS schedule SE. It is 6 pages. Here is the link:https://www.irs.gov/pub/irs-pdf/i1040sse.pdf

Also download and print the actual form for Schedule SE. Here is the link: https://www.irs.gov/pub/irs-pdf/f1040sse.pdf

The profit on your business is basically your self employment. Enter the ne Schedule C on Line 2 and line 3. Then multiple Line 3 times .9235. If it is le do not owe self employment tax and can skip this form.

Line 5 Self Employment Tax: Multiple Line 4 by 15.3 percent. Enter the resachedule 2 Line 4.

Line 6: Deduct one half of self employment tax. Multiply Line 5 by 50 perce on Line 6 and on **Schedule 1 Line 27.** 

#### Step 16: Complete the Simplified Qualified Business Income Compor

You can usually lower the amount of business income subject to federal ta by completing the Simplified Qualified Business income Worksheet. The d available, regardless of whether taxpayers itemize deductions on Sch the standard deduction. It reduces the lesser of taxable income or bu and is generally 20% of a taxpayer's qualified business income (QBI)

There are two ways to calculate the QBI deduction: Using the simplified we complex worksheet.

This Simplified Worksheet can be found in the Instructions for Form 1040 a straightforward calculation. see page 50

Qualified Business Income will consist of the income or loss that is reporte following tax schedules: Schedule C (Form 1040), Line 31 – Net Profit (or

20% of the Qualified Business Income from the trade or business. If there through businesses reported on the return, the QBI Component is determine each business.

#### Fill out form 8995. Here is the link

# https://www.irs.gov/pub/irs-prior/f8995--2019.pdf

# **Step 17: Complete Schedule E Supplemental Income and Loss**

Schedule E is for income that is not part of your W-2 income and not part of income. For example, you may get royalty income for a book you wrote. The Line 4, Line 21, Line 23b, Line 24 and Line 26 of this form. Also enter this schedule 1 Line 17.

# **Step 18: Complete Form 8863 Educational Credits**

This is where we calculate the deduction for our daughters educational exp

link to download the instructions for this form: https://www.irs.gov/pub/irs-p^

Here is a link to download and print the actual form:

https://www.irs.gov/pub/irs-pdf/f8863.pdf

To claim the American opportunity credit, you must provide the educationa employer identification number (EIN) on your Form 8863.

For 2019, you may be able to claim **a tax credit of up to \$2,500** for adjust education expenses paid for each student who qualifies. A tax credit reduc income tax you may have to pay. Unlike a deduction, which reduces the ar subject to tax, a credit directly reduces the tax itself. Forty percent of the A credit may be refundable. This means that if the refundable portion of your your tax, the excess will be refunded to you.

Qualified expenses include tuition, required enrollment fees, and course m student needs for a course of study whether or not the materials are bought institution as a condition of enrollment or attendance.

The amount of the American opportunity credit (per eligible student) is the first \$2,000 of qualified education expenses you paid for the eligible student next \$2,000 of qualified education expenses you paid for that student. The of American opportunity credit you can claim in 2019 is \$2,500 multiplied be eligible students.

You claim the American opportunity credit by completing Form 8863 and s your Form 1040 or 1040-SR. Enter the nonrefundable part of the credit on 1040 or 1040-SR), line 3. Enter the refundable part of the credit on Form 1 line 18c

The American Opportunity Credit is better than Lifetime Learning Cre to a total of only 4 years. You can only take one or the other – not bot student on any given year.

The amount of the lifetime learning credit is 20% of the first \$10,000 of qual expenses you paid for all eligible students. The maximum amount of lifetim you can claim for 2019 is \$2,000 (20% × \$10,000).

What is the tax benefit of the tuition and fees deduction? The tuition and fereduce the amount of your income subject to tax by up to \$4,000. This decay an adjustment to income on Schedule 1 (Form 1040 or 1040-SR). This decay beneficial to you if you don't qualify for the American opportunity or lifetime

#### Step 19: Deduct student loan interest from form 1098-E on federal 10

Student loan interest can be deductible on federal tax returns, but receivin always mean you're eligible to take the deduction. If you're married filing s 2019 if your modified adjusted gross income is \$85,000 or more if filing sin married filing jointly, you can't deduct any student loan interest.

Your lenders are required to send you Form 1098-E only if you paid at leas during the year. The student loan interest deduction is taken as an adjustr calculating your adjusted gross income (see Schedule 1 Part II Line 20anc do not have to itemize your deductions to take it. Regardless of how much the maximum student loan interest you can deduct is \$2,500.

### **Step 20: Social Security Benefits Worksheet**

You can usually lower the amount of Social Security benefits subject to tax completing the Social Security benefits worksheet. See page 7, 8, 9 and 1 document https://www.irs.gov/pub/irs-pdf/p915.pdf

# Step 21: Calculate the Child Tax Credit

This is worth about \$500 (up to \$2000 per child). The Child Tax Credit (CT give an income boost to the parents or guardians of children and other depast, it only applied to dependents who were younger than 17. However, y \$500 per year for dependents who are older than 17.

As a reminder, tax credits directly reduce the amount you owe the IRS. So \$3,000 but you're eligible for \$1,000 in tax credits, your bill is now \$2,000. a tax deduction, which reduces how much of your income is subject to income

The Child Tax Credit is also refundable up to \$1,400. That means if you questax Credit and it brings your tax liability (how much you owe) below zero, to you the remaining amount of the credit, up to \$1,400. There is now a \$500 credit available for each non-child dependent even if they are over 17.

Eligible filers can claim the Child Tax Credit on **Form 1040**, **line 12a**. To he exactly how much of the credit you qualify for, you can use the Child Tax C Other Dependents Worksheet provided by the IRS.

https://www.irs.gov/pub/irs-pdf/p972.pdf#page=6

#### **Step 22: Complete Schedule 1 Additional Income**

Additional income includes royalty payments on any books you have writte. This needs to be done after completing schedule C, Schedule E and schedule.

#### **Step 23: Complete Schedule 3 Nonrefundable Credits**

This includes deducting your students tuition credit. First complete form 88 19 on Schedule 3 Line 50 and Line 55.

#### **Step 24: Complete Schedule 4 Other Taxes**

Complete Schedule SE to determine your self employment tax. Then enter Schedule 4 Line 57 and 64.

# Forms completed separately:

8863 Education Credits

Schedule 3 line 3 (non-refundable education credit)

Schedule C Profit or Loss from Business

Qualified Business Income Deduction simple version

Schedule SE Self Employment Tax (short version)

Schedule 4 has been discontinued by the IRS beginning with the 2019 incinformation entered previously on Schedule 4 has been added to Schedule

Schedule 2

Schedule E Supplemental Income (royalty to schedule 1 line 5)

Schedule 1 (total to 1040 line 6)

Social Security Benefits Worksheet 1

Child Tax Credit Worksheet

Last will be 1040 rough draft and compare to last year.

# Notes on completing OTS 1040 form:

You can do a manual calculation of 1040 and then use your entries to comfill in boxes. If using the standard deduction, do not fill in any of the boxes will calculate the standard deduction for you. When you click Compute Tax

automatically calculate the Social Security Worksheet for you. Review the Fill out PDF forms. Then click Open in PDF Viewer.

# Step 24: Print and compare your entire return with your previous yea

Then make any adjustments to your current year return based on your pre In my case, I had made two minor math errors in my manual calculations. these math errors and corrected them.

In addition, my hand writing is not the best and my numbers can be hard for OTS printed out a professionally typed return. I reviewed all of the calculate compared to the calculations I had made and OTS did a better job of calculation I had done.

The only correction I needed to make to the printed form was to add the na security number of my dependent on Page 1 of the 1040.

It printed out 1040 (2 pages), Schedules 1, 2, 3, Schedule B and C (2 page

I needed to add my manually filled out forms for Schedule E, Schedule SE (education credit), and Form 8995 (Qualified Business Income Deduction)

# Step 25: Complete your final return, print it, sign it and mail it in.

Also send in copies of all of your tax forms including your W-2, 1099s, 109 Insurance Verification form) and any other forms you filled out showing how your taxes