

PC Part Picker lab

As you work, you will be asked to take and paste screenshots of the completed tasks into this document. If you do not have a preferred screenshot application, the Snipping tool on a Windows machine will work well. If needed, [here's a guide to using the Snipping Tool](#). For our purposes, you should be able to simply Copy + Paste the screenshots into this document, thereby saving you the effort of saving the screenshot then inserting it.

Save this document to your computer with the file name tia6_pcpartpickerlab_firstnamelastname. Please update firstname.lastname with your actual first name and last name. Also, please update the information in the header.

When finished, you will save your work and upload this file to Canvas to turn it in.

1. Choose a CPU (15 pts)

To read about choosing a CPU, see pages 226-229 of the *Technology in Action* textbook.

What is your CPU usage level? Refer to the earlier lab on task performance monitoring and your computer's current specs. If you are not overloading your CPU currently, you may not need much more performance than that.

Select a CPU and report the following specs below:

Ghz (speed):

Number of cores:

Intel or AMD?

2. Choose a CPU Cooler

Even though this part isn't directly covered in the chapter, you will still need to select one for your system. Make sure it is compatible with the parts you have already chosen.

3. Choose a motherboard (10 points)

For more information on motherboards, refer back to *Tech in Action* chapter 2, page 52.

For our purposes, choose either an ATX or Micro ATX form factor.

Number of RAM slots?

Maximum amount of RAM supported:

4. Choose memory (aka RAM) (15 points)

To read about choosing RAM, see pages 230-232 of the *Technology in Action* textbook.

How fast? DDR3

How much? GB (should be at least 4 GB)

How many modules? (Usually this will be listed as something like 2x4GB, meaning you'll get 2 sticks of RAM with 4 GB each.)

5. Choose storage (15 points)

To read about choosing storage, see pages 233-238 of the *Technology in Action* textbook.

For this lab, you will choose multiple storage drives.

First, an SSD system drive to hold your OS (see page 233 for details).

How much capacity? Choose at least 30 GB to have room for the OS GB

Second, a mechanical drive for large storage space.

How many RPM (reads per minute)? This is your access speed. See chart 6.14 on page 233 in your textbook
 RPM

What is the capacity? Choose at least 160 GB up to 8 TB (8 TB is equivalent to 8000 GB) GB or TB

6. Choose a video card or GPU (10 points)

To read about choosing video cards, see pages 242-244 of the *Technology in Action* textbook.

You should consider having an HDMI port on on your video card to allow easy TV integration.

How much memory? Choose at least 1 GB. GB

Number of HDMI ports?

7. Choose a case

It's up to you as long as it is compatible.

8. Choose a power supply (5 points)

Check the estimated wattage needed in the top left box. Be sure to choose a power supply that supplies at least that amount of wattage.

What is the power supply wattage? W


9. Choose an optical disc drive

To read about choosing optical disc drives, see page 235 of the *Technology in Action* textbook.

Go ahead and add a disc drive to your specs. They are cheap and come in handy.

10. Compatibility alerts (10 points)

(5) Paste a screen shot of the compatibility alerts section of the build list below.










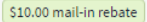



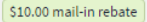



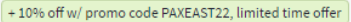









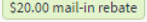



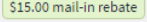



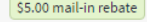



✓ **Compatibility Check:** No issues/incompatibilities found.

There shouldn't be any compatibility alerts. Not all compatibility alerts are equally important. Some simply remind you to update your BIOS, which isn't really a problem. Some will tell you that the parts will literally not fit together, which would be a problem. To be on the safe side, avoid compatibility alerts to ensure that everything works together. But if you have an alert, and you think this is not a problem, please explain why below:

10. Screenshot & link for parts list (20 points)

(5) Paste a screen shot of the parts list below:

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 Technology in Action chapter 6
 4/25/16

Component	Selection	Base	Promo	Shipping	Tax	Price	Where		
CPU	 Intel Core i7-6700K 4.0GHz Quad-Core Processor	\$344.99				\$344.99	Amazon		Buy 
CPU Cooler	 Cooler Master Hyper 212 EVO 82.9 CFM Sleeve Bearing CPU Cooler	\$38.98	-\$10.00			\$28.98	OutletPC		Buy 
						 \$10.00 mail-in rebate			
Motherboard	 Gigabyte GA-Z170-HD3 ATX LGA1151 Motherboard	\$94.99	-\$10.00	\$2.99		\$87.98	Newegg		Buy 
						 \$10.00 mail-in rebate			
Memory	 G.Skill TridentZ Series 8GB (2 x 4GB) DDR4-4266 Memory	\$289.99	-\$28.99	FREE		\$261.00	Newegg		Buy 
	Add Additional Memory					 + 10% off w/ promo code PAXEAST22, limited time offer			
Storage	 Samsung 850 EVO-Series 250GB 2.5" Solid State Drive	\$84.88				\$84.88	OutletPC		Buy 
	 Western Digital Caviar Blue 1TB 3.5" 7200RPM Internal Hard Drive	\$47.99				\$47.99	Micro Center		Buy 
	Add Additional Storage								
Video Card	 MSI GeForce GTX 970 4GB Twin Frozr V Video Card	\$324.99	-\$20.00	FREE		\$304.99	Newegg		Buy 
						 \$20.00 mail-in rebate			
Case	 Corsair 200R ATX Mid Tower Case	\$59.99	-\$15.00	FREE		\$44.99	Newegg		Buy 
						 \$15.00 mail-in rebate			
Power Supply	 EVGA 500W 80+ Bronze Certified ATX Power Supply	\$34.99	-\$5.00	FREE		\$29.99	Newegg		Buy 
						 \$5.00 mail-in rebate			
Optical Drive	 Asus DRW-24B1ST/BLK/B/AS DVD/CD Writer	\$18.89				\$18.89	OutletPC		Buy 

Copy and paste the link to the parts list below:

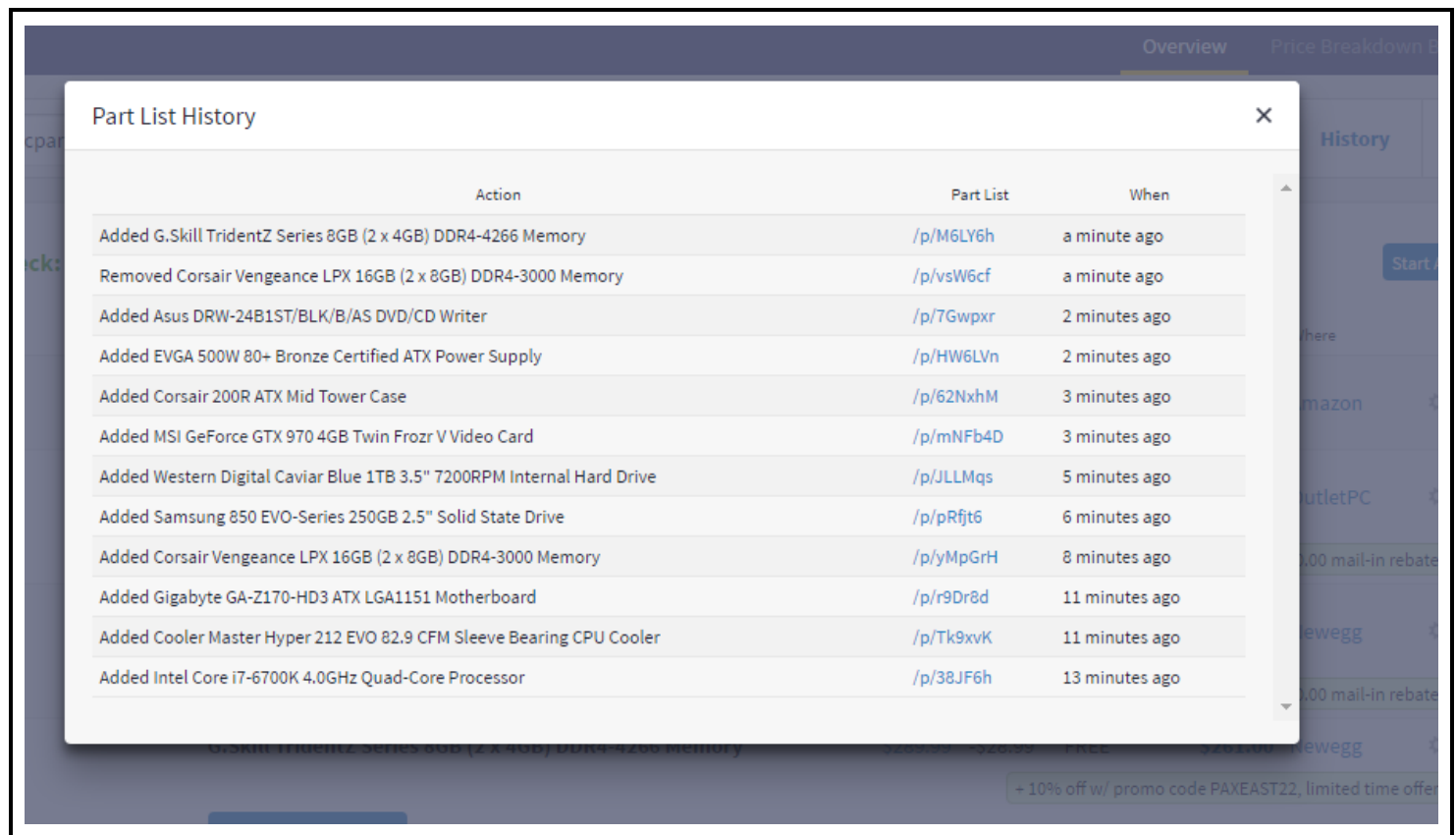
http://pcpartpicker.com/p/M6LY6h

11. Parts list history (10 points)

Click on the History button on your parts list to pull up your History. Using your snipping tool or other utility, take a screen snip that includes as much of the history as possible.

(10) Paste a screen shot of the parts list history below:

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The screenshot shows a web application interface for PC Part Picker. A modal window titled 'Part List History' is open, displaying a table of recent actions. The background shows a blurred view of the main application with tabs for 'Overview' and 'Price Breakdown', and a 'History' section on the right.

Action	Part List	When
Added G.Skill TridentZ Series 8GB (2 x 4GB) DDR4-4266 Memory	/p/M6LY6h	a minute ago
Removed Corsair Vengeance LPX 16GB (2 x 8GB) DDR4-3000 Memory	/p/vsW6cf	a minute ago
Added Asus DRW-24B1ST/BLK/B/AS DVD/CD Writer	/p/7Gwpxr	2 minutes ago
Added EVGA 500W 80+ Bronze Certified ATX Power Supply	/p/HW6LVn	2 minutes ago
Added Corsair 200R ATX Mid Tower Case	/p/62NxxhM	3 minutes ago
Added MSI GeForce GTX 970 4GB Twin Frozr V Video Card	/p/mNFb4D	3 minutes ago
Added Western Digital Caviar Blue 1TB 3.5" 7200RPM Internal Hard Drive	/p/JLLMqs	5 minutes ago
Added Samsung 850 EVO-Series 250GB 2.5" Solid State Drive	/p/pRfjt6	6 minutes ago
Added Corsair Vengeance LPX 16GB (2 x 8GB) DDR4-3000 Memory	/p/yMpGrH	8 minutes ago
Added Gigabyte GA-Z170-HD3 ATX LGA1151 Motherboard	/p/r9Dr8d	11 minutes ago
Added Cooler Master Hyper 212 EVO 82.9 CFM Sleeve Bearing CPU Cooler	/p/Tk9xvK	11 minutes ago
Added Intel Core i7-6700K 4.0GHz Quad-Core Processor	/p/38JF6h	13 minutes ago

Save and turn in this document.