

Computer store

Computer

- Each computer has a unique store ID
- Computer has cpu brand and model
- Computer has Graphics Card (GC) brand and model
- Computer has memory (amount in gb)
- Computers have hard disk type (ssd, hdd, sshd)
- Computers have hard disk capacity
- Computers have OS (Win, Linux, Mac)
- Computers have a price

Laptop

- Laptops have a manufacturer
- Laptops have a screen size: 11.1, 12, 13.3, 14, 15.6, 17.3
- Max number of GC and cpu is 1

Desktop

- No screen
- Max number of cpus up to 2 (same cpu)
- Max number of gpus up to 2 (same GC)

Server

- No screen
- Servers have a manufacturer
- Max number of gpus 4 (same cpu)
- Max number of cpus 4 (same GC)

System functionality:

1. Search computer by type, store ID or price range (all 3)
2. Search computer subtypes by details (e.g. laptops by screen size – at least 2 types)
3. Display all computers
4. Add a computer
5. Remove computer
6. Save computers on exit.
7. Read computers from a file on execution
8. BONUS: Implement a class that will represent the store inventory. All searches and adding and removing of computers have to be done from this class.
9. BONUS: Implement desktop computer parts as classes and implement a desktop computer price calculator function that adds the price of all the parts in a computer to determine its price.