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CSIS 2420-01

Assignment One

1. List four Pre Computer data structure not covered in class. For each of these describe the problems they solve, and associated algorithms.

Data Structure / Problem it helps solves / associated algorithms

-Notes / storing data / recalling useful information

- Locker / securing data / lock

- Human Brain / storing data / recalling event

- Instructions / organizing data / step by step directions

1. Use the list of pre-computer data structure related items given by students in class. For each item if it is a data structure, describe the problem it solves and the algorithms it uses. If it is a data source, describe an associated data structure and then give the problem this data structure solves and the algorithms it uses.

Data Structure / Problem it helps solves / associated algorithms

-List / Organize data / Alphabetize the entries

-Chart / represents data / graphical representation

-Record / Capturing and translating data / sound playback

- File cabinet / storing data / keeping files for recall

- File Folders / storing data / keep paper documents

- Check Register / organize data / conformation of data

- Dictionary / Organize data / alphabetize the entries

- Math Tables / storing data / multiples of x

- Calendar / storing data / keep days in order

- Address Book / organize data / alphabetize contacts

- Planner / organize data / keep dates and times straight

- Phone Book / organize data / alphabetize contacts

- Accounting Ledgers / storing data / keeping record of balances