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REVIEW FOR CSC 106

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What do we use the internet for?

- www

- http[s]

- file servers

- email

- social network

- IM (BBM and such)

- game servers

- VOIP/skype

URL

www.csc.uvic.ca/monkeybusiness/...

"ca" is a domain

"csc" and "uvic" are sub-domains of "ca", "csc" is a sub domain of "uvic"

anything after the domain is the path

DNS - Domain Name Server

(\*)Converts URL into a IP address

(\*)Distributed databases

Data is transfered through packets

(\*) has three components

(i) header: parent, size, destination

(ii) DATA

(iii) checksum - error-checking for redundancy of sum or missing packet

Email

(\*)POP3 - post office protocol. Your email is kept on your own PC.

(\*)IMAP - online access to email

(\*)SMTP - simple mail transfer protocol

DMD - Digital Music Data

(\*) Pattern/Frequency Analysis

(\*) Finding similar music

/\*Writing a program that would find music similar to a particular song, think of how you would suggest music to other people based on the songs they like\*/

ALGORITHMS

(\*)Take a finite amount of times (ie. it halts)

(\*)for any input, it always returns the correct result

(\*)In Class NP, you can check solutions in polynomial time and has an existing algorithm

QUICKSORT(List A)

if length of A <=1 return A

let p be last element in A

initialise LOWER, UPPER lists

put p in UPPER

for each element in A(except last){

compare element to p

if less than p

put element in LOWER

else

put element in UPPER

}

QUICKSORT(LOWER)

QUICKSORT(HIGHER)

return(LOWER + UPPER)