CS201 HANDOUTS pdf

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Latin Translation Services in Pakistan. Latin Translation Services in Pakistan Latin is a Roman language which was spoken in Latium and Ancient Rome.

Please see Instructor and TA contact information. Course Description Introduction to the concepts, techniques, and applications of computer science. Topics include computer systems the design of computers and their languages ; theoretical foundations of computing computability, complexity, algorithm design ; and artificial intelligence the organization of knowledge and its representation for efficient search. Examples stress the importance of different problem-solving methods. Textbook The Racket Guide. A description of Racket for people with previous programming experience. How To Design Programs online copy. It assumes no programming background. Other Resources The course web page is at http: Piazza Students will be enrolled in a piazza site for the course. Zoo accounts The Zoo is a collection of computers located on the 3rd floor of AKW at the front of the building. Once you register for the course, an account on the zoo will be created within a few hours through an automated process. A Zoo tutorial is available on-line from the course web page. It contains copies of handouts. Plan on spending between hours per week on the course outside of class. The programming assignments are an integral part of the course. Please try not to leave the homework to the last minute. You will be more efficient, learn more, have more chance to get help, and generally be calmer and happier if you do the associated reading first and start the programming or other problems early. Grading The final grade in the course will be based on class participation, your performance on the programming assignments and other homework, and the exams. At the end of term, up to 25 points will be deducted from the total lateness penalties your homework has accrued. Errata Policy In an act of impressive humility, I will award errata points to students who find errors in the handouts or class notes. There is an errata folder in piazza for this purpose. One point per error. The point is awarded to the first student who notifies me in writing of the error. Errata points may be redeemed for late days. Policy on Working Together Unless otherwise specified, the homework assignments are your individual responsibility. Plagiarism is a violation of University rules and will not be tolerated. You must neither copy work from others at Yale or elsewhere nor allow your own work to be copied. You are encouraged to ask others for help with the computers and Unix, with questions about Scheme, general questions about the concepts and material of the course, but if you need more extensive help with a program or other assignment, please ask a TA or the instructor for assistance. Working in groups to solve homework problems is not permitted in this course. Please talk to the instructor if you have any questions about this policy.

Optional Handout From Fall on the Stable Marriage Problem (in postscript) / (in pdf) Supplementary Material on Logical Arguments (in postscript) / (in pdf) Supplementary Material on Quantifiers (and Proofs) (in postscript) / (in pdf.

Initialization is a process of assigning a value to a variable at the time of declaration. A copy constructor is a special type of constructor which initializes all the data members of the newly created object by copying the contents of an existing object. The compiler provides a default copy constructor. Operator overloading is used to provide some extra features, behaviors and abilities to the users of a particular class. What is a dangling pointer? When the location of the deallocated memory is pointed by the pointer even after the deletion or allocation of objects is done, without the modification in the value of the pointer, then this type of pointer is called a dangling pointer. Can a static member function access member variable of an object? No, because to access the member variable of an object inside its member function, this pointer is required. Since static functions are class functions, this pointer will not be passed as its arguments. What is the advantages of using the Inline function? What are all the operators that cannot be overloaded? Function signature does not depend on the return type. So overloading cannot be resolved by the return type alone. What do you mean by a public member? A member declared as public is a public member. It can be accessed freely in a program. Is recursion allowed in inline functions? The recursion is allowed in inline function but practically, the inline functions and their properties do not remain inside the program. Moreover, the compiler is not sure about the depth of the recursion at the time of compilation. What is virtual function? A virtual function is a member function that is declared within a base class and redefined by a derived class. To create a virtual function, the function declaration in the base class is preceded by the keyword virtual. In C, the concept of inheritance is not supported. On declaring a struct in C, the addition of the struct keyword is must. In C, the initialization cannot be done outside the scope of a structure. In C, structures do not have direct functions or methods. Encapsulation is not supported by structures but supported by classes. Define pure virtual function? Pure virtual function is defined as a virtual function in a base class. It is implemented in a derived class. A program may not declare an instance of a class that has a pure virtual function. Define a conversion constructor? A conversion constructor is a single argument constructor. It is used by the compiler to convert a type of objects as an argument to a class type. What is a default constructor? A zero argument constructor or a constructor in which all the arguments have default values is called a default constructor. What is difference between template and macro? A template can be used to create a family of classes or function. A template describes a set of related classes or set of related functions in which a list of parameters in the declaration describe how the members of the set vary. Identifiers that represent statements or expressions are called macros. Reference is a name that acts as an alias, or alternative name, for a previously defined variable or an object.

3: cs Introduction to Programing Handouts for Virtual University Students

CS - Introduction to Programming Hence to design a program properly, we must: o Analyze a problem statement, typically expressed as a word problem. o Express its.

There are two required textbooks for the course: This is not a programming course per se, indeed an underlying theme is that Computer Science is more than just programming. On the other hand, programs are concrete manifestations of many abstractions underlying Computer Science, and thus it is helpful to use a programming language to convey many of the ideas in this course. We will use the functional language Haskell for this purpose. You will find that Haskell is quite a bit different from other programming languages that you have used, but it is well suited to this course, and will hopefully expand your understanding of what a programming language is. Other instructors teaching this course use the Scheme programming language. In some ways Haskell can be viewed as a strongly-typed variant of Scheme. You can also easily download your own version of GHC from haskell. By registering for the class, a work directory will be created for you earmarked for this class. Details on how to use Haskell and GHC will be forthcoming. Web Page and Newsgroup: This web page plucky. There will be more-or-less weekly problem sets. The work will be graded by your TA and returned, along with solutions, nominally within one week. Please work on the homework bit by bit over the week, rather than leaving it to a marathon session the night before it is due. This will give you a chance to mull things over and to ask appropriate questions in any help sessions that we might schedule. It will also prevent over-crowding in the Zoo. You should do the required reading, textbook exercises, and other preparation before beginning programming assignments, since it is generally much more efficient to test, debug, and run a program that you have planned carefully than to try to do the planning as you go. A non-trivial percentage of the assignments, by the way, will not involve any programming at all. It should go without saying that when you hand in electronically or otherwise a paper with your name on it, I assume that you are certifying that this is your work, and that you were involved in all aspects of it. It is Ok to work with other students on the concepts underlying an assignment, but you are expected to do the actual assignment on your own, based on your own level of progress with the material. Your grade will be based on a combination of homework assignments and exams, with a significant weight on the former. That is, you are expected to do all of the homework assignments except one, as discussed above! Negligence in completing problem sets will result in a low grade, even if performance on exams mid-term and final is good.

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Assignment Due Date is 26 July, Total Marks are This assignment covers lesson no. We are here to facilitate your learning and we do not appreciate the idea of copying or replicating solutions. CS Assignment Solution File has been added. It should be clear that your assignment will not get any credit marks if: The assignment is submitted after due date. The submitted assignment file is not in. The submitted assignment file does not open or corrupted. The assignment is copied from other student or ditto copy from handouts or internet. CS Assignment Uploading instructions Do not wait for grace day. Grace Day is given only if there is problem with LMS on due date. Submit your solution within due date. Note that no assignment will be accepted through email if there is any problem in LMS on grace day. CS Assignment Objective The objective of this assignment is to make you familiar with working and implementation of heap data structure. Your program should fulfill requirements given below in points a and b. Graphical representation of odd min heap using insert method and min using buildHeap method is given below for your understanding. Given data should be used for input to heap in the form of array. In case of even discard it and move to next number. Please Share it with your friends. Solution Code - 1 Preview:

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As this course is titled "Introduction to programming", therefore it is most essential and appropriate to understand what programming really means. Let us first see a.

Introduction This guide is based on the most frequent problems that students encountered last semester when attempting to submit their work. It is aimed at beginners and tailored to specific quirks of the Zoo environment. The skills that make you fast and efficient on your own computer do not necessarily translate into the Unix, command-line world. To run the command, press Enter. When you go to run a particular command on a homework file, just fill in the number of the relevant assignment. The scp syntax is: One-liner for getting a homework assignment assuming it has been posted onto your own computer. This also assumes you are currently in the local directory to which you want to transfer the file i. Send a file that exists in your CWD from your computer to your userspace on the Zoo. Bash hides your typing of passwords for security reasons. ED key fingerprint is 0f: Windows 10 You can activate and download the Linux Subsystem for Windows. This will give you a full-on Unix shell, equivalent to the terminal on the Zoo machines or a Mac. Good directions from Microsoft are here: You can now follow along with any of the scp or ssh commands no problem! Once pscp is installed, you can use it as a command from Windows PowerShell or even cmd. It has the same syntax and purpose as scp, although be careful, since Windows uses different conventions for filenames most infamously, back-slashes instead of forward-slashes. The manual and download page for PuTTY is here: More information on PuTTY will be posted soon. How do I access the Zoo? Starting with Fall , you get a zoo account automatically when you register for an upper level computer science course. FYI, below is the previous protocol. The first thing you need to do is register for a Zoo account at: This will create or update your Zoo account and place a folder named cs in your Zoo home directory. Make sure you see the following message in a green-colored font at the top of the Zookeeper page: Watson Hall AKW in the evenings or on weekends when the doors are locked. Whether remotely or in person, you always use your NetID and password to log in to a Zoo node. Again, the process has changed. If you have problems, notify cshelp yale. Zookeeper does two things when you register for cs When you ls the contents of this class directory, you should see something of the form: This is the cs folder mentioned above. Hence you will be told: Then you can register using the normal process. Where should I keep my files on the Zoo? The Zoo is a cluster of computers running the Linux operating system and sharing a common filesystem. This is where you will find the cs directory that was created when you registered. How do I move around on the Zoo? You can click around and open Racket files in DrRacket, for instance. The window that pops up will display a prompt such as bash By default, you will be in your home directory. We will cover remote command-line access in a subsequent section. One of the confusing things about the current Zoo configuration is that your prompt the bash We will cover how to make the prompt more useful, but right now you will learn the most important basic command: Enter this command on the terminal and press Enter. You should see the absolute path of your current location in the filesystem. If you are using the terminal and get lost, just use pwd to find your place. If your terminal is cluttered with a bunch of unneeded text, type clear to refresh it. Practice by invoking pwd multiple times and then clear-ing the display. This is a typical workflow: If you enter cd without any arguments, you will be returned to your home folder. The typical syntax for a command is: You type these elements, each separated by a single whitespace, and then press Enter. The cd command takes an argument that is the path to a directory. See what we did? We gave an absolute path to cd as an argument and then we moved to that path within the file system. But moving around is useless without the ability to see the stuff located in our CWD. Try running ls -al. This should display for you the contents of the current directory, but listed in one column with extra details. Note that ls can take an argument the path to some other directory , but usually you will want to call it without an argument so that it defaults to show the contents of the current directory. By convention, a hyphen precedes the flags, which are not ordered. That is to say, -al is the same as -la. The second idea flows out of what you see in the top three lines when you invoke ls -al. You can ignore the first line, which has to do with the memory blocks used by the current directory. In Linux everything is a

file, so directories are just a special case of files. From this, we can reason that cd. But we will see an application later on. If you keep invoking cd.. At the root of course! Are there any subfolders? Now is a decent time to discuss two vital features of your bash shell. This is handy for recalling long commands that would be a pain to re-type! We want to cd into the cs folder. Type cd cs2 and then hit TAB. Play around and you should be able to figure it out. You can also use tab completion to check for the existence of files or folders. We can use this fact to check that the file we want to run as a program or specify as an argument actually exists in the location we expect it. Do NOT rely on cut-and-paste! Instead, always be mindful of your current location within the filesystem and use tab completion and ls -la to ensure that the folder or file you want to work with actually exists at the location you are saying it does. Here are some basic commands to practice. What man and cp do and what kind of argument s they take are left as exercises for the reader! In all likelihood, your error is that you are referring to a file that does not exist in the location you have specified. But it is not a good idea for beginners. So step one is to cd over to the location of your homework file. It is a piece of code written by a professor and then compiled into a binary that can then do stuff on your files and the Zoo filesystem. System-wide programs like these can conflict with user programs by having the same name. Suppose you write a script and call it man. This is where the. I can run assuming my man is executable the following: Use ls or tab completion to make sure you have specified the path correctly. So we need to tell the shell exactly where this program exists. You must use this level of care and precision when referring to all files. So please go slowly. The first is the assignment number, and the second is an accurate path to your homework file. The syntax is exactly the same for the other submit scripts, which you can use to unsubmit your work or protect it or verify that you have indeed submitted file s. This guide is NOT the manual for the ZSS; rather, it attempts to demystify why the submit programs need to be invoked in the way they do. Again, you will learn so much more and be able to check your work if you commit to not copying-and-pasting the commands from the existing guide. How can I use the Zoo from my own laptop? There are less and more efficient ways of transferring files to your Zoo userspace.

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7: CS Computer Science I

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9: Virtual Guide: CS - Introduction to Programming handout

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