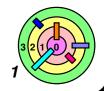
CS402 Exams

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http://merlot.usc.edu/william/usc/



Purpose Of Exams



Some people think that an exam is a learning experience

- not really
- it's more like SAT, GRE, and TOFEL tests
 - o it's an assessment
 - because I need to give you a fair grade
 - you are being tested for materials you have learned in this class
 - it's not about testing your general OS knowledge
 - you are tested on knowledge (about CS 402) + "critical thinking"

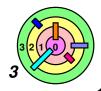


Midterm Exam Coverage



Covers Ch 1 through Ch 4 that have been covered in lectures so far

- Ch 5 is not part of midterm coverage
- also warmup1, warmup2, kernel1 (specs, FAQs, my post to class Google Group)
 - will not ask you to write warmup or kernel code, but can ask you about code in specs and FAQs
 - will not ask you to write assembly code, but can ask you about assembly code on lecture slides that have been explained





Calculation-type questions



Short answers

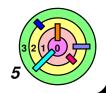
- give the best answer for a question
- if the question says, "In N words or less, ...", it's just a hint to tell you approximately how many words we expect
 - you can write more words
 - exception: when it's a fill-in-the-blank question (N would be small), then you must not use more than N words
- you get credit for including the right answer
- you get deduction for saying something wrong
 - cannot go below zero point
- must not answer a general (high-level) question by giving an example
- must not answer a specific question by giving a general (high-level) answer





Multiple-choice

- unless explicitly stated, every multiple-choice question has one or more correct answers
 - even if the question asks, "which statements are correct" or "under what condition", it can have one or more right answer/s
 - please ignore minor grammatical and spelling mistakes
 - if you select all the correct choices, you get 2 points
 - if only one correct answer, it's worth 2 points
 - if two correct answers, each is worth 1 point
 - if three correct answers, first one is worth 1 point, the rest worth 0.5 point each
 - if four correct answers, each is worth 0.5 point
 - for every wrong answer you have selected, you lose 1 point
 - best not to guess!





Multiple-choice

- if a statement is inconsistent or incorrect, it must be considered to be a "false" statement
 - if the question asked you to select all the correct statements, you must not select it
 - if the question asked you to select all the incorrect statements, you must select it



Total points for a problem of any type cannot go negative





Correct/best answers to most questions in the exam are the ones on lecture slides (and in textbook)

- lecture slides take precedence since I cannot change textbook
- please understand that exams are about materials in this class
 - it doesn't matter what you have read anywhere else
- if you disagree with what's on a lecture slide, textbook, or my posts to the class Google Group, you need to complain to me now to set things straight
 - once the exam starts, it's too late to say that you don't like the answers on the lecture slides, textbook, or my posts
- I reserve the right to ask about things that I think you should know and not on lecture slides or in textbook
- therefore, you should focus on studying lecture slides
 - although it should be clear that for multiple-choice questions,
 the "wrong answers" are not on lecture slides
 - you need to figure out why some answers are wrong
 - you need to understand lecture slides (and textbook)



Critical Thinking



Read questions and answers carefully and *critically*

- for every wrong answer in a multiple choice question, you should be able to pin-point exactly why the choice is wrong
 - based on your knowledge of the course material
 - you should be able to form a clear argument why the answer is incorrect



How to practice critical thinking

- form a small study group (maybe with your kernel teammates as a start, or post to class Google Group to invite others)
- study lecture slides and come up with questions based on the slides
 - short answers
 - true/false questions
 - if you answer "false", you must give a precise reason why you think the answer is false
 - this way, you develop the habit of being precise



Each section will get a different exam

- DEN section: 10:00am 10:40am, Wed, 3/24/2021
- Asia time zone: 7pm 7:40pm, Wed, 3/24/2021
- AM section: 10:00am 10:40am, Thu, 3/25/2021



I am required by the university to *offer* an alternate exam for students *participating from a time zone* whose exam time is outside the "learning hours" (7am - 10pm USC time)

- how do I guarantee fairness given that the exams are different?
 - absolutely no way (I have no proof that it can be 100% fair)!
 - there is only one class curve and one fixed scale (i.e., I will not use two curves to assign grades because that's also unfair)





Solution to the fairness problem:

for students participating from a time zone in Asia, you get to choose which exam to take



If you are mostly concerned about getting a fair exam, you should take the DEN or AM exam (the one you are registered in)

- although this maybe unfair to you since you may have to take the exam in the middle of the night
 - it's manageable since you have plenty of time to plan and get ready for the exam



If you choose to take the *alternate exam*, you are implicitly *agreeing* to *trust me* to be fair to convert your exam grade to a grade that's compatible with the exams your classmates took



If you are *participating from a time zone in Asia*, please reply to my e-mail to let me know your decision



Technically speaking, the midterm is a *take-home exam* and not an "online exam"

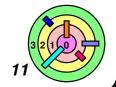
- exams are open book, open notes (not open friend, of course)
- you are required to sign a pledge to say that you will not cheat
 - no signed pledge, no exam!



You can opt-out of the midterm exam and have your final exam account for 60% of your overall grade

- must let me know via e-mail ahead of time

If you are registered with the Disability Services and Programs (DSP) and require specific accommodations, please make sure that I have your paperwork



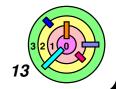


- Let's say that your exam is from 10:00am to 10:40am (if your exam is at a different time, please adjust accordingly)
- you are required to stop working on exam at 10:40:00am and finish submitting the exam before 10:43:00am
 - if your submission timestamp is exactly 10:43:00am, it will be considered as a *late submission*
 - starting at 10:43:00am, you will lose 5% for each late minute
- what if you lost Internet connection when you submit?
 - I need proof that you really have an Internet problem
 - → you must use the Panopto Recorder (or something that can create an MP4 video offline) to record submission activity starting at 10:40:00am and keep your recording as proof that you had Internet problem
 - you must follow all the instructions
- if you don't have Internet problem, you must submit using a web form (just like submitting assignments)
 - if you e-mail your exam, it will be at your own risk



Let's say that your exam is from 10:00am to 10:40am (cont...)

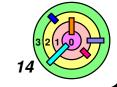
- 1) setup e-mail filter to never miss an e-mail from bill.cheng@usc.edu (and never send it to spam)
- 2) by 9:55am, get your desktop ready
 - display a clock on your desk that show your local time
 - start Panopto Recorder on your desktop (don't start recording yet, just get it ready in case you need it later)
 - get your submission PIN ready (same PIN as submitting assignments)
 - set an alarm clock to go off at 10:39:00am and make sure your clock is correct





Let's say that your exam is from 10:00am to 10:40am (cont...)

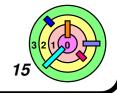
- 3) watch your inbox
 - you will get an e-mail before 10:00:00am
 - two links in the e-mail
 - first link to download a ZIP file that contains exam quetions (PDF file) and answers (text file)
 - download it, unpack it, save answers text file on your desktop for eazy access
 - 2nd link is for submitting your midterm (same web submission form as submitting assignments)
 - click on it, check time on submission server and make sure time on your desktop is correct
 - you can work on your exam as soon as you get the e-mail
 - if you have not received my e-mail by 10:00:00am, send
 e-mail to me immediately
 - e-mail can take a long time to get delivered
 - if you get a reply from me, please read my e-mail





Let's say that your exam is from 10:00am to 10:40am (cont...)

- 4) when you have finished your first pass through the exam, make a submission (it should only take a few seconds)
 - if you see a submission ticket, verify that the file name and file size look right
 - save web page as PDF
 - feel free to make additional submission if you changed your answers text file
- 5) when your alarm goes off at 10:39:00am, you need to wrap things up and get ready to submit your answers text file
- 6) at 10:40:00am, you must stop working on your answers
 - if your answers text file is the same as your more recent submission, then you are done
 - otherwise, proceed to step (7)





- Let's say that your exam is from 10:00am to 10:40am (cont...)
 - 7) reload the submission web page
 - if *successful* (i.e., you have Internet connectivity), make sure the time on the server matches your desktop clock
 - make a submission
 - if you get a server error, just *keep trying*
 - server is busy because too many students are submitting at the same time
 - you have 3 minutes, sooner or later, your submission will go through
 - this is why you must start submitting at 10:40:00am
 - if you see a submission ticket, verify that the file name and file size look right and notice the server timestamp
 - save web page as PDF, this is your proof that your submission has made it to my server
 - one proof is enough and you do not need to see the ticket e-mail



- Let's say that your exam is from 10:00am to 10:40am (cont...)
 - 7) reload the submission web page (cont...)
 - if unsuccessful (i.e., you have no Internet connectivity), start Panopto to record of your desktop as proof that you don't have Internet connectivity at 10:40:00am
 - open answers text file and record its entire content in a Panopto video one page at a time and take photos with your cellphones
 - reload the browser to prove that you don't have Internet connectivity
 - make sure your desktop clock is being recorded
 - stop recording, don't delete Panopto video and photos
 - send me an e-mail from your cellphone immediately, attach photos and let me know that you have Internet problem at 10:40:00am AND you have a video proof
 - do not send me the Panopto video unless I ask for



Let's say that your exam is from 10:00am to 10:40am (cont...)

- 7) reload the submission web page (cont...)
 - if unsuccessful (cont...)
 - when you get your Internet back, submit you answers text file using the submission web form
 - save ticket web page as PDF and send me e-mail to let me know that you have got your Internet back
 - your answers text file should be identical to the one in the video and in the photos



You can substitute the Panopto Video Recorder with another video recorder that can record a MP4 video



Midterm Exam Rehearsal



We will have a *rehearsal* on Monday, 3/22/2021 at 1:00pm

- although not required, you should participate
- IMPORTANT: download Panopto Video Recorder from D2L website and get it configured properly according to instructions
 - if you have an alternate MP4 recorder, get it set up
- this way, you get to practice all the steps so you know what to expect
 - you can practice as many time as you would like and you should try out different scenarios
- if you are not available during that time, you can still try the procedure any time afterwards



For the real exam, you cannot say that you submit late because you are not familiar with some of the steps



Sample Old Exams



I do not give out sample old exams

sample multiple-choice question:

Which of the following is correct/incorrect about X?

- calculation-type questions
 - follow the calculations performed on lecture slides with different parameters
 - you should study all equations/calculations on lecture slides
- sample "short answer" question:

Q: What are the 3 types of questions in our exams?

A: multiple-choice, calculation, short answer

most questions on the exam are multiple-choice questions



Best way to study

 probably form a small study group and ask each other questions from lecture slides



General Rules



Read problem descriptions (especially multiple choice answers) very carefully

- you may not receive any credit if you answer the wrong question
- if a question has multiple parts, make sure you answer every part and clearly label which answer is for which part



We will give partial credit if applicable

no guarantee that you will get partial credit



Do not just draw pictures to answer questions (unless the question asked you to draw pictures)

 pictures will not be considered for grading unless they are clearly explained with words



weenix questions

if a question does not mention the word "weenix" explicitly, you must not give a weenix-specific answer

General Rules



Please ignore minor spelling and grammatical mistakes

they do not make an answer invalid or incorrect



During the exam, you can e-mail me questions to *clarify* problems

- please understand that e-mail may take days to get delivered
 - please don't count on me to reply immediately
 - I will only reply by posting to class Google Group
 - you should have your e-mail opened during the exam
- please do not ask for hints or ask if "it's okay to answer this way"
- if you ask a non-clarification type question, I will not be responsible for the answer that you think I gave
- I will not answer questions regarding multiple choice questions
 - because it gives answers away
 - read the question carefully and choose carefully
 - need to select all the right answers and not select any of the wrong answers
- most likely, I will not answer any questions during the exam (unless I have made a major mistake)

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