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CS 61B Data Structures, Fall 2020

Instructor: Josh Hug Lecture: Zoom link

This document provides an overview of the policies for this course as taught at UC Berkeley. If you just want to know how to get started on the class, see this getting started guide.

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These policies are still in beta and have not been fully reviewed, but will be very close to what is described below. Sorry for any errors or omissions.

General Background Information

Welcome to CS 61B

The CS 61 series is an introduction to computer science, with particular emphasis on software and machines from a programmer's point of view. CS 61A covered high-level approaches to problem-solving, providing you with a variety of ways to organize solutions to programming problems as compositions of functions, collections of objects, or sets of rules. In CS 61B, we move to a somewhat more detailed (and to some extent, more basic) level of programming.

In 61A, the *correctness* of a program was our primary goal. In CS61B, we're concerned also with *engineering*. An engineer, it is said, is someone who can do for a dime what any fool can do for a dollar. Much of 61B will be concerned with the tradeoffs in time and memory for a variety of methods for structuring data. We'll also be concerned with the engineering knowledge and skills needed to build and maintain moderately large programs.

Background Knowledge

This class assumes you have taken CS61A, CS88, or E7, or have equivalent background to a student who has taken one of these courses. The course is largely built upon the assumption that you have taken CS61A or CS88, and E7 students may find the beginning of the course to be a bit scarier, particularly when it comes to object oriented programming.

We assume you are coming in with zero Java experience. Nonetheless, we will move through basic Java syntax very quickly. Though the syntaxes of Java, Python, MATLAB, Scheme, etc. are enormously different, the underlying computational models are surprisingly similar.

If you already have Java experience, great! We hope that you'll help out your fellow students in discussion, lab, and on our class forum, particularly in the opening weeks when everyone is catching up on Java.

Knowledge of UNIX is not required, though you might find it useful if you want to use the lab computers instead of your own computer. Lab 1 will give you resources to learn UNIX if you end up deciding to use the lab computers instead of your own.

Is this the right course for me?

This is a course about data structures and programming methods. It happens to also teach Java, since it is hard to teach programming without a language. However, it is not intended as an exhaustive course on Java, creating Android apps, user interfaces, graphics, or any of that fun stuff.

Some of you may have already taken a data structures course, and simply want to learn Java or C++. For you, self-study may be a better option. CS 9F (C++ for programmers) and CS 9G (Java for programmers)

are both one-unit self-paced courses that will teach you more of what you want to know in less time. There is no enrollment limit for that course, and you work through it at your own pace after the first and only lecture.

Finally, the 1-unit self-paced course CS 47B is for students "with sufficient partial credit in 61B," allowing them (with instructor's permission) to complete the 61B course requirement without taking the full course. The 47B guide is at this link.

Lectures, Discussion and Lab Sections

Rather than presenting lecture material during our officially scheduled lecture time of MWF, 1-2, Josh Hug will lead a live Q&A session with no specific pre-planned activities.

Lecture material will instead be presented in pre-recorded videos, currently available on the course website. However, lecture #1 and at least one of the live lectures will be presented live during the regularly scheduled period.

Each week there is a 1 hour discussion section and a 2 hour lab section headed by a GSI and supported by academic interns. Information about the staff running each section can be found on the staff page.

Discussion and lab attendance are not usually mandatory, but attendance earns you 4 pacing points, which are described in more detail below.

There are 3 labs for which attendance is mandatory for full credit: Lab 2, Lab 4 (project 1 code review lab), and Lab 14 (project 3 checkoff lab).

Labs are worth part of the course grade. Points are earned by submitting working code to gradescope. Lab materials are available online, so you will be able to do much of the work ahead of time if you prefer.

Lab, Discussion, and Mentor GSIs

We will release lab and discussion section signups shortly before classes start. Details TBA.

In addition, you may also choose a mentor GSI. Your mentor GSI does not necessarily have to be your lab or discussion GSI. If you do not choose a mentor GSI, one will be assigned for you randomly. Details TBA.

Your mentor GSI will keep an eye out for you, and will also be your point-of-contact for issues when you need help or advice.

Online Resources

The course home page will provide one-stop shopping for course information. The course schedule as well as all handouts, homework, labs, FAQs, etc., will be posted there.

Our discussion forum this semester will be Ed Discussions. For most questions about the course, Ed is the right place to ask them. The course staff reads it regularly, so you will get a quick answer. Furthermore, by posting online as opposed to emailing us directly, other students benefit by seeing the question and the answer. Don't forget to check Ed before asking your question, just in case someone else has already posted it.

The e-mail address cs61b (at) berkeley.edu will send a message to the course staff (Josh and the head TAs). You can use it for correspondence that you don't want to seen on our class forum. The head TAs and Josh all read it, so you will usually get a quick reply. If you send a question that is of general interest, we may post the response on Ed (we will keep personal information out of it, of course). If you have any problems that require an exception to course policy (e.g. medical emergencies or sudden necessary travel that result in extended absences), please contact cs61b (at) berkeley.edu. Please do not email Josh for exceptions. Email cs61b (at) berkeley.edu.

Rather than using bcourses, we will be using our own custom learning management system called Beacon fa20.beacon.datastructur.es. You can use Beacon to keep track of your grades and late assignments, and you will also use it to specify your lab partner and mentor GSI.

Course Materials

There is no required textbook for the class.

There is an online textbook written by myself and a large team of former GSIs. It can be found at https://joshhug.gitbooks.io/hug61b.

If you find these notes insufficient, you might consider consulting Paul Hilfinger's (free) Java Reference or Head First Java, 2nd Edition by Sierra and Bates (O'Reilly, 2005). These are not required for the course.

The optional textbook for the weeks 5-14 of the course is Algorithms, 4th Edition by Wayne and Sedgewick.

All textbooks for this course are optional. Homework will not be assigned from them. Only alternate readings will be provided from them when possible.

The official description of the Java core language is available online in The Java Language Specification (Java SE 14 Edition) by James Gosling, Bill Joy, Guy Steele, Gilad Bracha, Alex Buckley, and Daniel Smith. It's extremely thorough and easy to read (once you understand how to read it).

Software

This official coding environment and text editor for the course is the Integrated Development Environment (IDE) called IntelliJ, though we will not introduce this IDE until Week 2. At your own discretion, you may instead use Vim, Emacs, Sublime, or IDEs like Eclipse, Netbeans, etc. Whatever you use, however, your submitted solutions must conform to our expected style guide. We strongly recommend that you use IntelliJ starting as soon as you finish project 0. We will not officially support any editing / programming environment other than IntelliJ.

This semester, we will use Java 14.

You will be able to do any work you'd like on any Windows, Mac OS X, or Linux computer. You may also remotely log into the instructional machines (which you will receive an account for during the first week), though you should be able to do everything in the course by working natively on your own computer. Information for setting up your own computer is linked in Lab 1b.

We'll be using the version-control system Git this semester. Version-control systems allow you to maintain a series of "snapshots" of your files at various points in their development. Used properly, this provides you some back-up protection, so that you can recover previous states of your work when something goes wrong. Also for team-oriented projects (as well as in the real world), version-control systems help manage collaborative work.

You will be learning and using Git for this course to track your work and submit your assignments. In addition to the advantages above, using Git will allow the staff to track your progress in the course and maybe even help you out when you're stuck on bugs. The first lab will teach you the basics of what you will need to know. Feel free to also read official Git documentation.

Expected Coursework

There are five required aspects of the course for which you earn points:

- 1. Weekly Check-in Surveys
- 2. HWs
- 3. Lab Assignments
- 4. Projects
- 5. Exams

In addition, you may also earn extra credit by completing additional surveys.

Weekly Check-in Survey

While lecture attendance is not required, nor even expected, we do expect you to stay up to date with lecture material. To help keep you on track, there will be 14 weekly check-in surveys due on Sundays at 11:59 PM. These surveys will also be used to keep track of attendance for discussion and lab.

Each weekly check-in survey is worth 16 points, for a total of 160 points. Only your top 10 weekly surveys are counted (out of 14). No late surveys will be accepted.

HW and Lab Assignments

There are 14 weeks of lab in the course, as well as 3 required homeworks.

During Phase I of the course (Weeks 1 through 5), labs will provide you with help getting your computer set up and teach you how to use essential Java programming tools.

During Phases II and III of the course (Weeks 6 - 14), standard labs will usually involve implementation of some data structure or algorithm described in lecture.

All labs should take no more than two hours to complete, though some may run slightly longer. HWs will vary from 3 to 10 hours of work. You will turn in everything electronically using GitHub, and your results will be available on Gradescope.

All homeworks are submitted individually (without partners), but you may work with other students subject to the collaboration rules described below. If you attend live labs (on Discord), you must submit with a partner starting with lab 3. See the lab partner section below for more details.

Homework will be graded on a rigorous suite of correctness tests while labs will receive full credit for "reasonable effort," as evaluated by a small number of relatively simple correctness tests. Passing all tests on Gradescope for homework or labs will ensure full credit as there are no hidden tests. Each of the 12 labs will be worth 32 points (for a total of 384 points), and each homework will be worth 160 points (for a total of 480 points). No homeworks or labs will be dropped.

Lab Partners

Coronavirus makes the world lonely. This semester, we are allowing lab partners for labs. You will be able to select your own lab partner or have one randomly selected for you. Your lab partner will be formally specified using Beacon. Details will be provided in the lab 2 spec. You will be able to dissolve lab partnerships by making a request to your mentor GSI. Details on lab partnerships can be found at this link.

Having a partner is optional for labs. Note that there will be 3 labs with mandatory attendance for all students. In these labs there will be an assignment for which you will have to get checked-off by a TA. If you choose to not attend a lab regularly, for the mandatory check-offs:

- Lab 2: You will be able to get checked off in office hours.
- Lab 15: There will be official sign ups for this checkoff, in which you and your partner will present the work you completed for Project 3.

If you absolutely cannot make any lab time for these mandatory check-offs fill out this form. This is applicable only to students who live in countries in which all of our lab times would be in unreasonable times for their time zone.

Programming Projects

In addition to the HWs and labs, there will be 4 programming projects. In these projects you will build an entire system. All projects except project 3 must be completed on your own. For project 3 you will be required to work with a partner, unless you specifically request otherwise (details TBA).

Project 0 and 1 will be relatively easier than projects 2 and 3, taking less time and with greater levels of scaffolding. Project 2 will be a difficult project (on par with what you might expect from a Hilfinger projects), though it will be spread over a long period of time. Project 3 will be an even more difficult capstone project in which you will design a project from scratch.

Each project has a specific theme:

- Project 0 (NBody): Introduction to Java
- Project 1 (Deques): Basic Design, Testing, and Code Review
- Project 2 (BearMaps): Testing and Large Scale Implementation
- Project 3 (BYOW): Large Scale Design

For projects 0 and 1, we will ultimately release all tests that determine your grade. In other words, passing all tests on Gradescope will allow you to earn full points for the autograded portion of the project.

Project 2A and 2B will have no publicly available tests. It will be up to you to verify the correctness of your implementation. All tests for Project 2C will be available.

Project 3 will have an autograded portion and a checkoff portion. All tests will be released for the autograder portion.

Projects 0, 1, 2, and 3 will be worth 200, 320, 800, and 800 points respectively. For each project, there are opportunities for "gold points" described in each project specification.

Project 1 will be broken into 2 parts:

- 200 points (project 1A Deques)
- 120 points (project 1B Deques II)

Project 2 will be broken into 3 parts:

- 160 points (project 2A KdTrees)
- 320 points (project 2B HeapMinPQ)
- 160 points (project 2C Puzzle Solver)
- 160 points (project 2D Bear Maps)

Project 3 will be broken into 5 parts:

- 200 points (phase 1 World Generator)
- 200 points (phase 2 World Explorer)
- 40 points (partner review #1)
- 40 points (partner review #2)
- 320 points (lab demo)

Exams

Exam dates and times will be posted soon. Midterm 1 will be worth 640 points, midterm 2 will be worth 960 points, and the final exam will be worth 1600 points.

You will be allowed to use unlimited handwritten sheets of notes on all exams. You will not be required to turn in these sheets, and you may reuse them from exam to exam.

Inspired by the great Paul Hilfinger tradition, exam questions may cover any material whatsoever. For fear of our lives, exams will almost exclusively test material covered in the course.

There will be **no alternate midterm exams**. If you miss an exam, your score will be reweighted with your performance on other exams (see "supersession" elsewhere in this document). Students with disabilities that require alternate exam timing will be honored, so long as you can make a time that overlaps the official time. If you have a disability that prevents your ability to make such a time, we will discuss alternate arrangements with you directly. If you are traveling on official UC business, and have a proctor available, we will allow remote exams to be taken at the same time as the official exam.

Alternate finals will be given in case of a direct final conflict only. If you miss a final exam due to illness, you will be given an incomplete grade in the course and will have to complete the final exam during a future semester.

We release grades for exams on Gradescope. If you believe we have misgraded an exam, request a regrade on the same site with a note explaining your complaint. You should check the online solutions first to make sure that this regrade will make your total score go up as it is possible to lose points from a regrade request.

Due to the university level change in drop deadlines, Midterm 1 grades will be unavailable before the drop deadline. If you're a prospective CS major and you are worried about dropping the course in the time before the drop deadline, we will provide advising sessions to help you decide what to do. Details will be announced at that time.

Exam Supersession

For those of you who miss an exam, have a bad night, or make major improvements over the semester, the exam supersession policy gives you a chance to replace potentially both of your midterm exam scores.

Specifically, if it helps your score, we will replace your midterm scores by their "final statistical equivalent" (FSE). We compute the FSE of an exam as follows:

Let F be the number of standard deviations above the mean that you score on the final. For example, if you are 0.3 standard deviations below the mean, F=-0.3. Let \overline{M} be the class-wide mean (not including zeroes) on an midterm. Let σ_M be the class-wide standard deviations (not including zeroes) on a midterm. Your FSE for that exam is $\sigma_M F + \overline{M}$. The FSE cannot go above the maximum possible score for that exam.

If your FSEs is better than your original midterm score, we will use the FSE instead. If both are better (e.g. you do much better on the final than either midterm), then we will replace both of the midterm scores. If both of your FSE are worse, nothing happens (i.e. doing badly on the final won't hurt your earlier exam scores).

Your grade can only go up with the supersession policy, so if replacing your midterm scores with their FSE makes your grade lower we will not do that.

In pseudocode, supersession works as follows:

```
F = (your_final_score - final_mean) / final_stddev

FSE_m1 = min(m1_stddev * F + m1_mean, 640) // the max score for midterm 1 is 640
FSE_m2 = min(m2_stddev * F + m2_mean, 960) // the max score for midterm 2 is 960

score_with_m1_replaced = FSE_m1 + your_m2_score + your_final_score
score_with_m2_replaced = your_m1_score + FSE_m2 + your_final_score
score_with_m1_and_m2_replaced = FSE_m1 + FSE_m2 + your_final_score
score_with_no_replacements = your_m1_score + your_m2_score + your_final_score

your_total_exam_score = max(score_with_m1_replaced, score_with_m2_replaced, score_with_m
```

Extra Credit

There will be a total of 64 points of extra credit in the course:

- 1. 16 points for the pre-semester survey.
- 2. 16 points for mid-semester survey.
- 3. 16 points for taking the staff created end-of-semester survey.
- 4. 16 points for taking the official university end-of-semester survey.

Grades

Your letter grade will be determined by the total points out of the possible 6,344. In other words, there is *no curving in this course*, other than the supersession policy above. Your grade will depend solely on how

well you do, and not on how well everyone else does. Unlike other lower division CS courses, the grading bins for 61B generally do not get tweaked at the end of the semester.

Category	Percentage	Points		
Homework/Labs	~13.6%	864		
Surveys	~2.5%	160		
Projects	~33.4%	2120		
Midterms	~25.2%	1600		
Final Exam	~25.2%	1600		
Total	100%	6,344		

A+	Α	A-	B+	В	B-	C+	С	C-	D+	D	D-	F
6140	5800	5420	4900	4560	4300	4000	3700	2976	2584	2176	1600	0

The bins above are a rough estimate, and will be finalized by August 31st.

These bins were designed to comply with departmental guidelines that the average GPA for a lower-division required course be in the range 2.8 - 3.3, not including students who drop or take the class for a P/NP grade. The design process involved setting of specific standards I expect students to achieve for the A, B, and C bins, with numbers adjusted and other bins interpolated based on a model that I built of predicted student performance. At the end of the semester, we might make the bin boundaries slightly friendlier, though as noted above, unlike other lower division CS courses, I don't typically move them very much, if at all.

We will grant grades of Incomplete *only* for dire medical or personal emergencies that cause you to miss the final, and only if your work up to that point has been satisfactory. Do *not* try to get an incomplete simply as a way to have more time to study or do a project. That is contrary to University policy.

Gold Points Boosting

Gold points can be acquired by completing the 'stretch' goals on the projects. Gold points act sort of like extra credit, though the lower your exam scores, the more your gold points will count.

If you earn g gold points and T points on all exams (after taking into account exam supersession), then your total score in the course will be boosted by $2\left(g-g\cdot\frac{T}{3200}\right)$.

For example, if you earn 16 gold points on project 2 and have 1920 points on your exams including exam supersession, then you'll earn a gold boost of $2\left(16-16\cdot\frac{1920}{3200}\right)=12.8$ to your total score in the class.

If we decide a project is too difficult, we reserve the right to move some part of the project into the gold parts section. In such a case, we may readjust the distribution of gold points.

Pacing Points Boosting

There are three ways to earn "pacing" points, which are given for keeping up with the class.

- 1. Attending discussions synchronously (on Zoom).
- 2. Attending lab synchronously (on Discord).
- 3. Watching the webcast lecture and completing the check-in exercise by 11:59 PM PST the day following the official lecture date.

For each discussion or lab you earn 4 pacing points. For each lecture you watch on time, you earn 2 pacing point. You may earn up to a maximum of 120 pacing points. For example, one way to achieve the maximum number of pacing points would be: attending 10 discussions in person, 10 labs in person, and keeping up with 20 lectures. To earn lecture pacing points, you should complete the "Check-in Exercise" linked under the guide for that lecture. For example, to earn pacing points for Lecture 5 (DLLists, Arrays), you'd need to watch lecture 5 and complete the check-in exercise by September 5th. Check-in exercised are done via Google Forms and are linked on the corresponding guide for that lecture.

Pacing points use the same formula as gold points, but cannot increase your score beyond 4400. For example, if you earn 120 pacing points throughout the semester and have 1200 points on your exams including supersession, then you'll earn a pacing boost of $2\left(120-120\cdot\frac{1200}{3200}\right)=150$ points on your total score. However, if this pushes your total score above 4400, your score will be set equal to 4400.

Policies on Collaboration, Cheating, and Lateness

Deadlines can be stressful, and we know that under extreme pressure, it becomes tempting to start rationalizing actions that you would otherwise yourself consider inappropriate. Perhaps you'll find yourself facing a 61B project deadline, and under all this stress you'll convince yourself that you're just going to cheat for the moment so you can get the points, and that you'll come back later and really learn the thing you were supposed to have learned in order to restore your karmic balance (I've heard something along these lines a few times).

This is a terrible idea. Obviously it's important to learn how to deal with deadlines, but far more important than that, giving into this sort of pressure under not-so-dire circumstances is going to do some damage to your moral compass. Someday, when the consequences are higher than potentially losing a 1/3rd of a letter grade, you may find yourself committing dishonest acts at the cost of someone else's livelihood or life.

Plagiarism on any hw, lab or project will result in a score of -200 on that assignment, which will likely reduce your letter grade by several bins. A second instance of plagiarism on a homework, lab, or project

will result in an F in the course. All incidents of plagiarism will be referred to the Office of Student Conduct, including carelessly leaving code up on GitHub. Given our friendly lateness policy (see below), there will be no exceptions to this rule.

During the Spring 2017 semester, we compiled a series of incident reports written by students who were caught plagiarizing. If you find yourself tempted to cheat, you might turn to the words of others who have made the wrong choice for guidance.

HW and Lab Collaboration Policy

In CS61B, we have three types of assignments: homeworks, labs, and projects. The entire point of homeworks and labs is to learn. For homeworks or labs, you should feel free to collaborate with others however you choose, though keep in mind that greater independence is likely to give you a better learning experience (as long as you aren't totally stuck). **Even though we will allow close collaborations on HWs and labs, your code should still be your own work!** Identical or near identical submissions will be treated as plagiarism.

Project Collaboration Policy

By contrast, the projects were designed not just for learning (particularly how to be self-reliant in the context of large unfamiliar systems), but also for the dual purpose of evaluating of your mastery of the course material. As such, they are intended to be completed primarily on your own (or with your partner for the first two projects), particularly when it comes to writing the actual code.

For exams, we will be absolutely unforgiving. Any incident will result in a failing grade for the course, though Berkeley will let you retake 61B next semester. As above, all incidents of cheating will be referred to the Office of Student Conduct.

What constitutes cheating? The golden rule of academic dishonesty is that you should not claim to be responsible for work that is not yours.

This is obviously open to some interpretation, and you'll be getting some help from instructors, the internet, other students, and more throughout the course. This is OK, and we hope that the class is an open, welcoming, collaborative environment where we can help each other build the highest possible understanding of the course material. To help (but not entirely define) the bounds of acceptable behavior, we have three important rules for projects:

1. **By You Alone**: All project code that you submit (other than skeleton code) should be written by you (and if applicable, your project 0 or project 2 partner) alone, except for small snippets that solve tiny subproblems (examples in the Permitted section below).

- 2. Do Not Possess or Share Code: Before you've submitted your final work for a project, you should never be in possession of solution code that you (or your partner) did not write. You will be equally culpable if you distribute such code to other students or future students of 61B (within reason). DO NOT GIVE ANYONE YOUR CODE EVEN IF THEY ARE DESPERATELY ASKING. DO NOT POST SOLUTIONS TO PROJECTS ONLINE (on GitHub or anywhere else)! If you're not sure what you're doing is OK, please ask.
- 3. **Cite Your Sources**: When you receive significant assistance on a project from someone else, you should cite that assistance somewhere in your source code with the @source tag as described in lab 1. We leave it to you to decide what constitutes 'significant'.

For clarity, examples of specific activities are listed below:

Permitted:

- Discussion of approaches for solving a problem.
- Giving away or receiving significant conceptual ideas towards a problem solution. Such help should be cited as comments in your code. For the sake of other's learning experience, we ask that you try not to give away anything juicy, and instead try to lead people to such solutions.
- Discussion of specific syntax issues and bugs in your code.
- Using small snippets of code that you find online for solving tiny problems (e.g. googling
 "uppercase string java" may lead you to some sample code that you copy and paste into your
 solution). Such usages should be cited as comments in your hw, lab, and especially project
 code!

Permitted with Extreme Caution:

- Looking at someone else's project code to assist with debugging. Typing or dictacting code into someone else's computer is a violation of the "By You Alone" rule.
- Looking at someone else's project code to understand a particular idea or part of a project.
 This is strongly discouraged due to the danger of plagiarism, but not absolutely forbidden. We are very serious about the "By You Alone" rule!
- Working on a project alongside another person or group of people. Your code should not substantially resemble anyone else's!

Absolutely Forbidden:

Possessing another student's project code in any form before a final deadline, be it electronic
or on paper. This includes the situation where you're trying to help someone debug.
 Distributing such code is equally forbidden.

- Possessing project solution code that you did not write yourself (from online (e.g. GitHub), staff solution code found somewhere on a server it should not have been, etc.) before a final deadline. Distributing such code is equally forbidden.
- Posting solution code to any assignment in a public place (e.g. a public git repository, mediafire, etched into stones above the Mediterranean, etc). This applies even after the semester is over.
- Working in lock-step with other students. Your workflow should not involve a group of people identifying, tackling, and effectively identically solving a sequence of subproblems.

We have advanced cheating detection software, and we will routinely run this code to detect cheating. Every semester, we catch and penalize a significant number of people (roughly 100 cases per semester). Do not be one of them. If you find yourself at such a point of total desperation that cheating begins to look attractive, contact one of the instructors and we can maybe help somehow. Likewise, if 61B is causing massive disruption to your personal life, please contact us directly.

If you admit guilt to an act of plagiarism before we catch you, you will be given zero points on that assignment, and we will not refer your case to the university administration.

Obviously, the expressive power of Java is a subset of the English language. And yes, you can obviously obey the letter of this entire policy while completely violating its spirit. However, this policy is not a game to be defeated, and such circumventions will be seen as plagiarism.

Lateness

The expected deadlines for each assignment are posted on the class website. Our assumption is that you will complete each assignment by its due date.

However, we understand that life gets in the way, and especially with the Coronavirus, unexpected circumstances may arise.

It is possible to submit work late by requesting an "extension token" for the assignment using beacon at https://beacon.datastructur.es/extensions/. The system will grant an extension token as long as:

- 1. You have not used up your slip time.
- 2. The extension is for less than 72 hours.

Every student will starts with a total of 15 days worth of slip time that can be used on homeworks, labs, or projects (including gold points assignments).

For example, consider a student who has:

- Submitted HW2 3 hours late.
- 2. Submitted Project 2A 35 hours late.

- 3. Submitted Lab 7 16 hours late.
- 4. Realizes four days after the deadline that they forgot to submit Project 2A.

This student has used 2.25 of their slip days and they have 12.75 remaining. This student will be unable to submit project 2A, because it is already more than 3 days late, and will therefore receive a score of zero on project 2A.

Slip days are intended to cover life events and disability accommodations. Students who have dire life circumstances that require additional time beyond the 15 slip days should contact Akshit if their supply becomes too low, and additional slip days may be granted if appropriate.

In addition to slip days, during RRR week, there will also be an amnesty period where students may resubmit up to **two assignments** without penalty. For example, the student in the example above will be able to submit project 2A during the RRR week period. We will not grant amnesty for more than two assignments. The details of the amnesty submissions will be given at a later date.

Auditing CS61B

This is for students who are unofficially auditing this class. Maybe you are a non-Berkeley student who wants to brush up on your programming knowledge or even a high school student who wants to get a head start on your programming career.

You can follow along with our lectures and assignments, getting all the code from our skeleton as described in lab 1. The only difference is that you won't have a CS61B GitHub repository, you'll have to make your own.

We also have an autograder on Gradescope set up just for you! The Gradescope course activation code is MB7ZPY. We'll release the autograder for assignments about 3 days after it is due for Berkeley students.

Acknowledgements

Some course handout material derived froms Paul Hilfinger's CS61B handout.

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