

AP Computer Science A - Hays

Assignment Sheet

First Semester

| Due | Assignment Description Special Instructions |
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| Tue 8/18 | Programming Honor Code "signed" via Google Classroom |
| Tue 8/18 | Account created on AP Classroom (see instructions on Google Classroom) |
| Tue 8/18 | Account created on repl.it (see instructions on Google Classroom) |
| Wed 8/19 | Notes 1.1 Printing (watch video via Google Classroom) |
| Wed 8/19 | Day3.java assignment (see instructions on Google Classroom) |
| Thu 8/20 | Notes 1.1 More Printing (watch video via Google Classroom) |
| Thu 8/20 | Day4.java assignment (see instructions on Google Classroom) |
| Fri 8/21 | Notes 1.2 Data Types (watch video on Google Classroom) |
| Fri 8/21 | Day5.java assignment (see instructions on Google Classroom) |
| Tue 9/15 | Day14 Math.random() Google Form practice |
| Tue 9/15 | Day14 coding activity |
| Wed 9/16 | Day15 coding activity |
| Fri 9/18 | Day16 coding activity CodingBat.com, specific problems listed in the PDF on the Google Classroom |
| Tue 9/21 | Day17 Substring practice Google Form Day17 coding activity AP Classroom Unit 2 MCQ A (15 questions) |
| Wed 9/23 | Day18: Review A, B, and C Google Forms Day18 coding activity |
| Fri 9/25 | Unit 2 Test |
| Tue 9/29 | Day20 Unit 2 Review repl Day20 coding activity repl Codingbat.com, three more problems from String-1: theEnd withoutEnd2 middleTwo |

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| Wed 9/30 | Day21 coding activity |
| Fri 10/2 | Day22 Method repl Day22 part 1 repl Day22 part 2 repl Day22 Number guessing game repl |
| Tue 10/6 | Day23 Warm-up repl Day23 coding activity repl Codingbat.com, Strings-1, do endsLy nTwice twoChar, see video where I work all three out attached to today's Google Classroom post. |
| Wed 10/7 | Day24PhraseKey repl assignment |
| Fri 10/9 | Day25 Warm-up repl Day25 Truth Table Practice Day25 Google Form Day25 Codingbat, 4 more problems: String-1: middleThree, hasBad, and atFirst, and Logic-1: squirrelPlay |
| Wed 10/14 | Day26 Warm-up Google Sheet Day26 Coding Activity repl Day26 AP Classroom Unit 3 MCQ Progress Check by Thursday 10/15 midnight |
| Fri 10/16 | Day27 Frog Race coding activity Day27 Codingbat (six Logic-1 problems) Day27 Google Form Review (22 problems, auto-grading) |
| Tue 10/20 | Day29 Warm-up activity Unit 3 Test |
| Wed 10/21 | Day29 While loop introduction activity |
| Fri 10/23 | Day30 Warmup Day30-One (average) Day30-Two (temperatures) |
| Tue 10/27 | Day31 Warm up repl Day31 Video 3 workspace repl Day31-Sum repl Day31-Two repl |

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| Wed 10/28 | Day32 for loop practice |
| Fri 10/30 | Day33 Warmup Day33 Prime checker Day33 codingbat.com, 4 String-2 problems: doubleChar countHi catDog countCode Day33 String loops |
| Tue 11/3 | Day34 Warmup repl Day34 Algorithms repl Day34 AP Classroom Unit 4 Progress Check: only do problems 1 through 9 today, and DO NOT SUBMIT on the AP Classroom, we want to finish problems 10 through 18 another day and you only get to submit once. I posted a video where I give you the 1 through 9 answers and explain how to get them so please check your work. |
| Wed 11/4 | Day35 Palindrome Checker |
| Fri 11/6 | Day36 Warmup Day36 Google form practice Day36 Practice repl Day36 AP Classroom, finish Unit 4 Progress Check MCQ, problems 10-18, submit. |
| Tue 11/10 | Day37 Review 1 through Day37 Review 5 repls Day37 Review 6 Google Form |
| Fri 11/13 | Unit 4 Test covering for and while loops on it, nested iteration, some algorithmic things (for example, how many times does the string "hi" show up in another string, found using a loop), and it's going to cover our old favorites substrings and Math.random(). |
| Tue 11/17 | Day39 Person class repl Day39 Storm class repl |
| Fri 11/20 | Day40 Student class repl Day40 Cat class repl Day40 Knife class repl. |
| Tue 12/1 | Day41 Warmup (Fraction) repl Day41 Superhero class repl Day41 AP Classroom Unit 5 Progress Check MCQ A (15 problems, due Thur 12/3 5PM) |
| Fri 12/4 | Day42 Warmup (Snack class) repl Day42 Bouquet class repl Day42 Cow class repl |
| Tue 12/8 | Day43 Warmup (Sundae class) repl Day43 Student class repl Day43 Voter class repl Day43 boatFace method repl |

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| Fri 12/11 | Day44 Warmup (Chicken) Day44 Broken repl Day44 everyOther method repl Day44 Review 1 Google Form Day44 Review 2 repl |
| Tue 12/15 | Day45 ChocolateBar repl Day45 Review 2 Google Form |
| Thu 12/17 | Final exam: Thursday, 10:10 to 11:30am. The exam will cover everything we have learned this whole semester. To prepare, do the review assignments, both Google Forms, etc. During the final you may use repl, your notes, our class videos, old assignments, and even Google. You may not, however, communicate with other classmates or actual people who help you with the problems. Please do your own work. |
| Wed 1/6/21 | Happy new year! We start unit 6: arrays Day47 Warmup Day47 repl coding activity |
| Fri 1/8 | CodingBat Arrays-1, first six Array-1 problems: firstLast6, sameFirstLast, makePi, commonEnd, sum3, rotateLeft3 (on the last one, do not make changes to the given int array nums, make a new int array and return that.) Don't forget to log in before doing the problems so you get credit for them with me. Day48 Practice repl CodingBat Arrays-2, first three problems: countEvens, bigDiff, centeredAverage |
| Tue 1/12 | Day49 Warmup Day49 Practice repl Day49 AP Classroom, Unit 6 MCQ problems 1 through 7 only, don't complete the assignment, though, we will do problems 8 through 14 another day Day49 CodingBat, three more Array-2 problems: lucky13, sum28, and more14 |
| Fri 1/15 | Day50 Warmup Pie class repl Day50 Practice A Check for duplicates with ints Day50 Practice B Check for duplicates with Strings Day50 Practice C Reverse order Day50 Practice D Max/Min/Ave Day50 Practice E Longest String |

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| Wed 1/20 | Day51 Warmup Frog pond party Day51 AP Classroom: finish MCQ 8-14 Day51 AP Classroom: Print "ing" words FRQ Day51 Unit 6 Review Google Form |
| Fri 1/22 | Unit 6 Test |
| Tue 1/26 | Day53 ArrayLists 1 repl Day53 ArrayLists 2 repl |
| Fri 1/29 | Day54 Warmup Zoom poll Day54 Frog pond Day54 Integer practice Day54 Dup Check Day54 chopIt |
| Tue 2/2 | Day55 Warmup Day55 Practice 1 (traversing) Day55 Practice 2 (linear search) Day55 Practice 3 (removing items) Day55 WordGroup class |
| Fri 2/5 | Day56 Warmup Day56 Google Form practice (sorting) Day56 Practice repl Day56 AP Classroom Unit 7 Progress Check MCQ problems 1 through 18 (all) completed by Sunday midnight. |
| Wed 2/10 | Day57 Warmup Day57 Google Form Review Day57 Practice 1 repl Day57 Practice 2 repl |
| Fri 2/12 | Unit 7 Test |
| Wed 2/17 | Day59 Warmup Day59 Practice 1 (2D array practice) Day59 Practice 2 (2D array of Frogs) |
| Fri 2/19 | Day60 Warmup Google Form Day60 Practice 1 Day60 Practice 2 Day60 Practice 3 Day60 Practice 4 |

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| Tue 2/23 | Day61 Warmup Day61 Practice 1 Day61 Battleship |
| Fri 2/26 | Day62 Warmup (warmups are now due the day they are assigned BEFORE class ends) Day62 AP Classroom Unit 8 Progress check MCQ (10 questions) Day62 Practice repl Day62 Frog Hop Party repl |
| Tue 3/2 | Day63 Warmup repl Day63 Google Form Review Day63 Practice 1 repl Day63 Practice 2 repl Day63 Practice 3 repl |
| Fri 3/5 | Unit 8 Test |
| Tue 3/9 | Day65 9.1 Practice Google Form Day65 allPresent method repl |
| Fri 3/12 | Day66 Warmup Day66 Quick Practice Day66 Store |
| Tue 3/16 | Day67 Warmup Day67 Cars Day67 AP Classroom Unit 9 MCQ questions 1 through 10 (do not submit yet, we'll be doing questions 11 through 18 next class). |
| Fri 3/19 | Day68 Warmup Day68 Light class repl Day68 AP Classroom Unit 9 MCQ questions 11 through 18, submit, check answers. |
| Tue 3/30 | Day69 Warmup Day69 Review 1 Google Form Day69 Review 2 Google Form Day69 Student .equals() Day69 Candy |
| Fri 4/2 | Unit 9 Test The test is open note, open old assignments, notes videos, repls, the Internet, etc. You just cannot help or get help from classmates or others. Please do your own work. You have until 1pm Friday. |

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| | If you complete three quarters or more of the test with an authentic effort then the lowest grade you will earn is a 75% C. |
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