W12:Homework:H05

CS56—Advanced Applications Programming—W12

First name (color-in initial)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	section (2,3,or 9)	first name initial	last name initial
Last name (color-in initial)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z			

H05: Due Tue 01.24 in Lecture Total Points: 50

MAY ONLY BE TURNED IN DURING THE CLASS INDICATED ABOVE, or offered in person, for in person grading, during instructor or TAs office hours.

See the course syllabus at https://foo.cs.ucsb.edu/56wiki/index.php/W12:Syllabus for more details.

Reading Assignment:

- Chapter 6 in HFJ, p. **125** -164. Using the Java Library and reading notes: HFJ:Chapter_6

(1) (10 pts) Fill in the information below. Also, fill in the A-Z header by

- **coloring in** the first letter of your first and last name (as it would appears in Gauchospace),
- writing **either 2, 3 or 9** to indicate your **discussion section** meeting time
- writing your **first and last initial** in large capital letters.

All of this helps us to manage the avalanche of paper that results from the daily homework.

name:	
umail address:	@umail.ucsb.edu

(2) (10 pts) Assuming a class called Student exists, write a line of java that makes a plain old Java array of Student references of size 5. (Don't allocate the Student objects, just the array of references, initially null).

(3) (10 pts) Assuming a class called Student exists, write a line of java that makes an ArrayList of Student references. (Don't allocate the Student objects, just the ArrayList, initially empty).

(please turn over for more)

(4) (5 pts) What is one advantage of using an ArrayList over a plain old Java array?

(5) Explain the difference between "short-circuit boolean" operators and "non short-circuit boolean operators" in terms of

- (5 pts) syntax (the actual symbols used)

- (5 pts) semantics (the meaning of the symbols)

(6) (5 pts) Why do some classes in the Java API have package names that start with java.blah while others have package names that start with javax.blah? What does the x mean?

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