

AP Computer Science A
Ticket Out the Door
Set 1: Declaring and Initializing Variables

Name _____ Period _____

Skill 1.1 Exercise 1

Write a driver class called variableTypes, then inside that class

- (a) Declare an int type variable “i”, but do not initialize it
- (b) Initialize “i” to your age
- (c) Assign the year you will graduate to “i”
- (d) Add “4” to “i”
- (e) Print the following message to the console: I will graduate from college in <the value of i>

Skill 1.2 Exercise 1

For each value below identify the variable type it could be associated with

3.14	
2	
5.00	
6.022×10^{23}	
true	
-2,147,483,648,990	

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Skill 1.3 Exercise 1

- (a) Write a single line of code that will create a double precision variable called “p” and store 1.921×10^{-15} in it. (Note 1.921×10^{-15} can also be written as 1.921E-15)
- (b) Write a single line of code that will create an integer variable called i and store 407 in it
- (c) Write a single line of code that will declare the variable called “result” of type boolean. Do not initialize it.

Skill 1.4 Exercise 1

For each statement, identify whether it is legal or illegal. If it is illegal, indicate why.

	legal/illegal	Explanation
int myInt = 1000; double d = myInt;		
double avogadro = 6.022E23; int protons = avogadro;		
double graduate = 2020; int g = (int) graduate;		
int lightSpeed = 3.0E8;		

Skills 1.5 & 1.6 Exercise 1

- (a) Declare a boolean type variable called “answer” and initialize it to true;
- (b) Declare a String type variable called “msg” and initialize it to “Will it be a great day?”;
- (c) Print the boolean variable to the console.

Skill 1.7 Exercise 1

code	legal/illegal
int 1231abc;	
double big-number;	
String name2;	