AP CS A Unit 1. Primitive Types. Exercises

First set of exercises. Data types and assignment statements.

INCEPALSE2. The variable name to the right is a valid variable name. TRUEdouble $n17 = 4.9$; transke name to the right is a valid variable name. TRUEboolean 2boo = true; true;3. The variable name to the right is a valid variable name. TRUEint two spaces = 2; true stable name to the right is a valid variable name. TRUEboolean 2boo = true; true;5. The variable name to the right is a valid variable name. TRUEfALSEdouble int x = 4.0; true; boo = false;6. What is the final value of boo? a) true b) false c) true and falseboolean boo = true; boo = false;7. What is the final value of x?int x = 9; x = x - 12; x = 20 - 2* x;8. What is the final value of z?int z = 7; z = 12; z	1. The variable name to the right is a valid variable name.	int good_num = 24;
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z3 = z3 + 7; 12. What are the final values of x and y? a) x is 4.5 and y is 5.6 b) x is 4.5 and y is 2.3 c) x is 2.3 and y is 5.6 x is 2.3 and y is 5.6 y = 3.4; d) x is 2.3 and y is 4.5 y = x + 1.1; d) x is 2.3 and y is 4.5 y = x + 1.1; double d = 2.3; d = 5.0 + d (10.0);		z3 = 6;
12. What are the final values of x and y? double x, y; a) x is 4.5 and y is 5.6 x = 1.2; b) x is 4.5 and y is 2.3 y = 3.4; c) x is 2.3 and y is 5.6 x = y + 1.1; d) x is 2.3 and y is 4.5 y = x + 1.1; 13. What is the final value of d? double d = 2.3;		z3 = z3 + 7;
a) $x ext{ is } 4.5 ext{ and } y ext{ is } 5.6$ $x ext{ = 1.2;}$ b) $x ext{ is } 4.5 ext{ and } y ext{ is } 2.3$ $y ext{ = 3.4;}$ c) $x ext{ is } 2.3 ext{ and } y ext{ is } 5.6$ $x ext{ = y + 1.1;}$ d) $x ext{ is } 2.3 ext{ and } y ext{ is } 4.5$ $y ext{ = x + 1.1;}$ 13. What is the final value of d ?double $d ext{ = 2.3;}$ $d ext{ = 5.0 + d} (10.0)$	12. What are the final values of x and y?	double x, y;
b) x is 4.5 and y is 2.3 c) x is 2.3 and y is 5.6 d) x is 2.3 and y is 4.5 13. What is the final value of d? y = 3.4; x = y + 1.1; y = x + 1.1;	a) x is 4.5 and y is 5.6	x = 1.2;
c) x is 2.3 and y is 5.6 $x = y + 1.1;$ d) x is 2.3 and y is 4.5 $y = x + 1.1;$ 13. What is the final value of d? double d = 2.3; d = 5.0 + d (10.0);	b) x is 4.5 and y is 2.3	y = 3.4;
d) x is 2.3 and y is 4.5 y = x + 1.1; 13. What is the final value of d? double d = 2.3; d = 5.0 + d (10.0);	c) x is 2.3 and y is 5.6	x = y + 1.1;
13. What is the final value of d? double d = 2.3; d = 5.0 + d (10.0)	d) x is 2.3 and y is 4.5	y = x + 1.1;
$d = 5.0 \pm d / 10.0$	13. What is the final value of d?	double d = 2.3;
u - 5.0 + u / 10.0,		d = 5.0 + d / 10.0;
14. What is the final value of <i>num1</i> ? double num1 = 4.0;	14. What is the final value of <i>num1</i> ?	double num1 = 4.0;
num1 = (num1 + 6.0) / 2.0 + 3.0;		num1 = (num1 + 6.0) / 2.0 + 3.0;
15. What is the value of <i>e</i> ? double e;	15. What is the value of <i>e</i> ?	double e;
e = 4.0 + 20.0 / 2.0 + 2.0;		e = 4.0 + 20.0 / 2.0 + 2.0;

16. How many numeric literals are in this statement?	int	y = 3 * 900;	
17. What is the data type of the numeric literal 400?	do	double w = 400;	
a) 400 is an int.			
b) 400 is a double.			
c) A numeric literal does not have a data type.			
18. Select the TRUE statement.	int	x = 17.9;	
a) This runs and x will have a value of 17			
b) This runs and x will have a value of 18			
c) This runs and x will have a value of 17.9			
d) This does not run.			
19. Select the TRUE statement.	int	y = 13.0;	
a) This runs and y will have a value of 13			
b) This does not run.			
20. Select the TRUE statement.	1	int g;	
a) Line 1 contains an error.	2	g = g + 6;	
b) Line 2 contains an error.			
c) There are no errors.			
21. Select the TRUE statement.	1	int apples = 12;	
a) Line 2 contains an error.	2	apples - 4 = apples;	
b) There are no errors.	3	apples = apples + 4;	

Second set of exercises. Integer division and printing.

22. This statement does not run because you cannot assign a	int blue = 14.0;
double to an int.	
TRUE FALSE	
23. What is the value of <i>red</i> ?	int red = 68 / 10;
24. What is the value of <i>green</i> ?	int green = 4 / 5;
25. What is the value of <i>yellow</i> ?	double yellow = 11 / 4;
a) 2.75	
b) 2.0	
c) 3.0	
26. What is the value of <i>aqua</i> ?	double aqua = 11 / 4.0;
a) 2.75	
b) 2.0	
c) 3.0	
27. What is the value of <i>violet</i> ?	double violet = 30 / 8 + 2.0;
a) 3.0	
b) 3.75	
c) 5.0	
d) 5.75	
28. What is the value of <i>ochre</i> ?	double ochre= (9.0 + 8) / 10;
a) 1.0	
b) 1.7	
c) 2.0	

29. What is the	e value of <i>mint</i> ?	int mint= (9.0 + 8) / 10;	
a) 1			
b) 1.7			
c) 2			
d) This do	pes not run because a double cannot be		
assigned to an	int.		

30. When this is run, what does the user see?		System.out.print("G");
		System.out.println("HK");
a)	b)	c)
G НК	G	GHK
	нк	

31. How many string literals are in this code?	System.out.println("A");
	System.out.printin(good dog),
32. What does this print?	double x = 7 / 4;
a) 1.0 is 1.0	System.out.println("x is " + x);
b) x is 1.0	
c) 1.75 is 1.75	
d) x is 1.75	

33. When this is run, what does the user see?		System.out.println("V"); System.out.print("WX"); System.out.println("Y"); System.out.print("Z");		
a)	b)	c)		d)
V	vwx	VWX		V
Z	Z	12		Y Z

34. When this is run, what does the user see?		System.out.println("T");
		System.out.println("H");
		System.out.print("E");
a)	b)	c)
T	TH	T
HE	E	Н
		E

Third set of exercises. Creating and using Scanner objects

35. What goes in the blank so	import java.util.Scanner;
that the program will read in the	
user's integer?	public class Main {
	public static void main(String[] args) {
a) nextInt();	Scanner v = new Scanner(System.in);
b) Scanner.nextInt():	System.out.println("Enter an integer"):
c) v.nextInt():	
d) num.nextInt():	int num =
	System.out.println(num + " is a great integer");
	}
	}
36. How many assignment	import java.util.Scanner;
statements are in this program?	
	public class Main {
	public static void main(String[] args) {
	Scanner can = new Scanner(System.in);
	System.out.println("Enter a number");
	double num = can.nextDouble();
	System.out.println(num + " is a great number.");
	}
	}

37. This program will not run	1	import java.util.Scanner;	
because of line 6.			
	2	public class Main {	
TRUE	3	<pre>public static void main(String[] args) {</pre>	
	4	Scanner s = new Scanner(System.in);	
FALSE	5	System.out.print("Number? ");	
	6	int x = s.nextDouble();	
	7	System.out.println("x is " + x);	
	8	}	
	9	}	
38. If line 1 is deleted, this program	1	import java.util.Scanner;	
will not run.			
	2	public class Main {	
TRUE	3	<pre>public static void main(String[] args) {</pre>	
	4	int num = 7;	
FALSE	5	System.out.println(num);	
	6	}	
	7	}	
39. Select the TRUE statement.	1	public class Main {	
	2	<pre>public static void main(String[] args) {</pre>	
a) This program runs.	3	Scanner x = new Scanner(System.in);	
b) There is an error on line 5 that	4	System.out.print("Number? ");	
stops this from running.	5	int n = x.nextInt();	
c) Lines 1 to 8 are fine but this	6	System.out.println(n);	
program still has a problem that	7	}	
stops it from running.	8	}	

40. This program should calculate and	import java.util.Scanner;
display the cost of tickets. A regular	
ticket is \$10 and a discounted ticket is	public class Main {
\$8. The user enters the total number of	<pre>public static void main(String[] args) {</pre>
tickets needed and then how many of	<pre>Scanner sc = new Scanner(System.in);</pre>
those are discounted. So, the variable	System.out.print("How many tickets? ");
numD will always be less than or equal	<pre>int tickets = sc.nextInt();</pre>
to tickets. For example, if the user needs	System.out.print("How many get a discount? ");
5 tickets and 3 are discounted, then the	int numD = sc.nextInt();
cost is \$44 (because the 3 discounted	int cost =;
tickets are \$8 each and the remaining 2	System.out.println("The cost is \$" + cost);
are \$10 each.	}
	}
What goes on the blank line to complete	
the program?	
a) 10*tickets + 8*numD	
b) 10*tickets – 2*numD	
c) 10*(tickets-numD) + 8*numD	
d) 10*(tickets-numD) + 2*numD	

Fourth set of exercises. Casting, increment/decrement operators, compound assignment operators

41. What is printed?	double zed = 5.9;
a) 5, 5.0	int x = (int) zed;
b) 6, 5.0	System.out.print(x + ", " + zed);
c) 5, 5.9	
d) 6, 5.9	
42. What is the value of <i>h</i> ?	double g = -13.9;
a) -13.0	double h = (int) (g - 0.5);
b) -14.0	
c) -15.0	
43. What is printed?	double a = (double) 48 / 10;
a) 4.8, 4.8	double b = (double) (48 / 10);
b) 4.0, 4.0	System.out.println(a + ", " + b);
c) 4.0, 4.8	
d) 4.8, 4.0	
44. What is the final value of <i>num</i> ?	int num = 5;
	num++;
	num++;
45. What is the final value of <i>red</i> ?	int red = 0;
	red;
46. What is the final value of <i>n</i> ?	double n = 1.1;
	n *= 2;
47. What is the final value of <i>c</i> ?	int c = 20;
	c += 8;
	C;
	c += 2;

48. What is the final value <i>numero</i> ?	int numero = 78;	
	numero /= 10;	
49. Select the TRUE statement.		double tree = 11;
a) This does not run because line 2 tries to assign a double to an int.		int branch = 3 + tree;
b) The variable <i>branch</i> has a value of 14		

Fifth set of exercises. The mod operator, %

	•
50. What is the value of this expression?	23 % 9
51. What is the value of this expression?	45 % 5
52. What is the value of this expression?	3 % 8
53. What is the value of this expression?	38 / 10
54. What is the value of this expression?	42 % 12
55. What is the value of this expression?	1 % 20
 56. List all the possible values of <i>n</i>. a) All integers in the range [0, 11] b) All integers in the range [1, 11] c) All integers in the range [0, 12] d) All integers in the range [1, 12] 	int x = some positive integer int n = x % 12;
 57. If the user enters 51, what is printed? a) 3 feet and 4 inches b) 4 feet and 3 inches c) 4.25 feet and 3 inches d) 4.25 feet and 0.25 inches 58. If the user enters 6 what is displayed? a) 0 feet and 6 inches b) 6 feet and 0 inches c) 0.5 feet and 0 inches d) 6 feet and 12 inches 	<pre>import java.util.Scanner; public class Main { public static void main(String[] args) { Scanner get = new Scanner(System.in); System.out.print("Enter a number"); int n = get.nextInt(); int ft = n / 12; int ft = n / 12; System.out.print(ft+ " feet and " +in+ " inches"); } }</pre>
 59. If the user enters a 5 and then a 2, what is printed? a) 12.5, 12.5 b) 12.5, 10.0 c) 12.0, 10.0 60. How many assignment statements are in this program? 	<pre>import java.util.Scanner; public class Main { public static void main(String [] args){ Scanner tom = new Scanner(System.in); System.out.print("Enter a number "); int x = tom.nextInt(); System.out.print("Enter another number "); int y = tom.nextInt(); double num1 = x * x / y; double num2 = x * (x / y); System.out.println(num1 + ", " + num2); } }</pre>