Multiple Choice Questions (with solutions)

https://csci-1301.github.io/about#authors May 22, 2024 (01:30:38 PM)

Contents

1.	Why are the instructors sharing most of the material in odt, docx, pdf, html and md?
	 □ To insure compatibility across operating systems (Android, Linux, Windows, MacOs,). □ To make it easier to access the resources in multiple ways (print, screen, etc.) ☑ All of the above.
2.	What does "free" software means?
	 □ That the software has no value. ☑ That the users can run the software for any purpose and study its source code. □ That it is not developed by a company. □ That the software can be downloaded at no cost.
3.	In your IDE, the shortcut to compile your program is usually
	 □ "Build your solution", ctrl + shift + B or Cmd + B □ "Save", ctrl + S or Cmd + S □ "Exit", alt + F4 or Cmd + q □ "Start without debugging", Ctrl + F5 or Cmd + F5
4.	To share or backup a project, you need to
	 □ share the .sln file. □ share the .cs file. □ share the .csproj file. ☒ zip the folder containing the .sln file and another folder with multiple files and folders in in
5.	If your IDE returns the message
	Program.cs(21,21): Error CS0117: 'Console' does not contain a definition \hookrightarrow for 'WiteLine' (CS0117) (Solution)
	This means that
	 ☑ That you misspelled the word "WriteLine". ☐ Your program successfully compiled and is ready to be executed. ☐ That the "Console" class does not exist. ☐ Your IDE was not properly installed and you should reboot your computer.
6.	Consider the following code:
	<pre>int age, defaultChoice = 0; decimal averagePrice;</pre>

	Which of the following is conect?
	 It contains declaration and initialization statements. It declares variables of two different datatypes. Only the value of defaultChoice is set. All of the above.
7.	Consider the following code:
	<pre>int person = 12; int pie = 5; int piePerPerson = pie / person; Console.WriteLine("Each guest gets " + piePerPerson + " pie(s).");</pre>
	What will be displayed by it?
	 □ Nothing: an error will prevent from compiling it successfully. □ "Each guest gets 2.4 pie(s)." □ "Each guest gets 0.41666666666666666666666666666666666666
8.	Consider the following statement:
	<pre>decimal balance = 2.5M; decimal price = 12; decimal remainingBalance = balance - price;</pre>
	Which of the following is correct?
	 This program will not compile because the result of balance - price is not a decimal. This program will not compile because a decimal cannot be negative. This program will compile. This program will not compile because you cannot store an integer value (12) in a decimal.
9.	The method used to read a string from the user is called
	□ ReadString□ ReadFrom⋈ ReadLine□ ReadInput
10.	Consider the following program:
	<pre>Console.WriteLine("Enter your age."); string fromUser = Console.ReadLine(); int age = (fromUser);</pre>
	To correctly be able to store the string in fromUser into age, you should replace with
	 (int) int.Parse Nothing: as long as the user enters an integer value, we can store it into age just fine. None of the above.
11.	What are, respectively, the return types of a constructor and of a ToString method?
	□ Constructors do not have a return type, and a ToString method returns a string.

```
☐ Constructors and ToString methods both return strings.
     Constructors returns a string, and a ToString method does not return anything (it sim-
        ply displays a text).
     \square It is impossible to know ahead of time, as this depends of the class they are implemented
        in.
12. What is the name of a constructor method?
     □ Nothing: an error will prevent from compiling it successfully.
     ☐ It does not have anv.
     \square The name of the instance it creates.
     □ Constructor
13. What are the three logical connectives in C# (that we studied)?
     \boxtimes And (&&), or (||) and negation (!).
     ☐ Equality (==), greater than (>) and less than (<).
     \square And (and), or (or) and negation (not).
14. Which of the following will evaluate to true?
     \Box 3 > 1 && 2
     \boxtimes (3 > 1) && 1 != 0
     \Box !(3 > 1)
     \Box 3 > 1 | 1 | 2
15. Will the following expression evaluates, and if so, what will it evaluate to?
   true == false || 2 / 1 > 0 && 3 - 1 != 2 * 0.5 + 0.5
   evaluates?
     ☐ It will evaluate to a number.
     \square It will evaluate to false.

    It will evaluate to true.

     ☐ It will not evaluate.
     \square None of the above.
16. What will be displayed by the following code?
    int number = 10;
   while (number <= 15)</pre>
   {
        number+=2;
        Console.Write(number + " ");
     □ 12 14 16
     □ 10 11 12 13 14 15
     □ 10 11 12 13 14
     □ 10 12 16
     □ 10 12
     □ 10 12 14
     □ 12+14+16
```

17. What will be displayed by the following code?

□ 10+11+12+13+14+15

```
int i = 0;
   while(i < 10)
        Console.WriteLine(i);
   }
     \boxtimes 0 followed by a new line, forever.
     □ 0 1 2 3 4 5 6 7 8 9
     □ 0 1 2 3 4 5 6 7 8 9 with a new line between each number
     □ Nothing
18. Consider the following code:
   Console.WriteLine("Enter... something!");
   int answer;
   bool valid = int.TryParse(Console.ReadLine(), out answer);
   Console.WriteLine($"returns: {valid}, value:{answer}");
   If the user enters "Train", then it will display:

    □ returns: False, value: 0

     □ returns: True, value: 0
     □ returns: True, value: Train
     □ returns: False, value: Train
     □ Nothing: the program will crash.
19. Consider the following code:
   string answer;
   Console.WriteLine("Enter something");
   answer = Console.ReadLine();
   while (answer != "yes" || answer !="Yes"){
        Console.WriteLine("Enter something");
        answer = Console.ReadLine();
   What can the user enters to exit this loop:

    □ There is nothing the user can enter to exit this loop

     ☐ Either "Yes" or "yes"
     ☐ Anything that is different from "Yes" and "yes"
     ☐ Anything
20. Consider the following code:
   int answer;
   Console.WriteLine("Enter something");
   answer = int.Parse(Console.ReadLine());
   while (answer > 10 \&\& answer < 100){
        Console.WriteLine("Enter something");
        answer = int.Parse(Console.ReadLine());
   What can the user enters to exit this loop?

    □ Any number not between 10 and 100 (both included)

     ☐ Any number between 10 and 100 (both included)
     ☐ Any number between 10 and 100 (both excluded)
```

☐ Any number not between 10 and 100 (both excluded)

```
21. What is the correct way of creating an array of int of size 5 named myArray?
     \boxtimes int[] myArray = new int[5];
     □ int[] myArray = int[5];
     □ int[5] myArray = new int[];
     ☐ int[4] myArray = new int[];
     ☐ int myArray = new int[5];
     □ int[] myArray = new int[4];
     ☐ int[] myArray = new int(5);
     □ int[] myArray = int[4];
22. Consider the following code:
    int[] grades = {10, 20, 5, 15};
   Console.WriteLine(grades[2]);
   What will it display?
     \boxtimes 5
     □ Nothing
     \square 20
     □ 15
     □ grades
     \square arades(2)
     □ 10
23. Consider the following code:
   char[] grades = {'A', 'B', 'C', 'D', 'F'};
   int i = 0;
   while(i < grades.Length){</pre>
        i++;
        Console.WriteLine(grades[i]);
    }
   Something is wrong with it, can you tell what?

    ∑ There will be an "Index was outside the bounds of the array." error.

     ☐ The array is not properly initialized.
     ☐ The loop is infinite
     □ grades. Length is not declared.
24. What will be displayed by the following code?
   for (int e = -5; e \le 20; e += 5)
   {
        Console.Write(e + " ");
   }
     □ -5 0 5 10 15 20
     \Box -5 0 5 10 15
     □ 05 10 15
     \square -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
     □ Nothina
     □ 05 10 15 20
```

25. What will be displayed by the following code?

```
int variable = 0;
for (int e = 1; e <= 5; e += 1)
{
    variable += e;
}
Console.WriteLine(variable);

    □ 15
    □ 0
    □ Nothing
    □ 1 2 3 4 5</pre>
```