PRG521_SA-Section 1

Started: May 9 at 1:32am

Quiz Instructions

Instructions:

- Recall to keep a copy of all submitted assignments.
- All work must be typed using Microsoft Word and convert the word document to PDF before uploading to COLCampus.
- Kindly note that you will be evaluated on your writing skills in all your assignments.
- Negative marking will be applied if you are found guilty of plagiarism, poor writing skills or if you have applied incorrect or insufficient referencing.
- Each assignment must include a cover page, table of contents and full bibliography, based on Harvard referencing style.
- Students are not allowed to offer their work for sale or to purchase the work of other students. This includes the use of professional assignment writers. If this should happen, CTU training Solutions reserves the right not to accept future submissions from a student.
- <u>Use Visual studio</u> to create this program and submit a screenshot of your program output and all C# related code per question
- Spelling, style, fonts, font size, line spacing
 - Please copy the questions onto your answer sheet (single space the questions), and make sure to use numbers to indicate the answers to each question.
 - Always use a spell checker before you submit assignments! We reserve the right to deduct point for each obvious misspelling.
 - Always double-space your answers.
 - Please use Arial (or Calibri (Body)), 12 point as the font for your assignments. Certain fonts have been known not to come across in the PDF files.
 - Use only black or blue font face colors. Do not use red!

Question 1 2 pts

Which of the following methods help us to convert string type data into integers? Select two.

Convert.toInt32();

☐ Convert.Int32();			
int.parse();			
parse.int();			

Question 2	2 pts
Suppose you're implementing a method name "Show" that will be able to take an unlimited number of int arguments. How are you going to define its method signate	ure?
○ A) void Show(int[] arg)	
B) void Show(params int[] arg)	
○ C) void Show(int a)	
O D) void Show(ref int a)	

Question 3 2 pts

You're developing an application that saves user's information. The application includes the following code segment (line numbers included for reference).

01 public bool IsNull(string name)

02 {

03 return true;

04

You need to evaluate whether a name is null. Which code segment should you insert at line 03

B) if (name == null) { return true; }

C) if (null) { return true; }

O D) if (!name) { return true; }

Question 4	2 pts
Which operator is used to get instance data inside type definition?	
○ A) as	
○ B) is	
C) this	
OD)?	

Question 5	2 pts
Which type cannot be instantiated?	
○ A) enum type	
B) static type	
○ C) class type	
OD) System.Object type	

Question 6 2 pts

Suppose you are developing an application. The application has two classes named Player and Person. The Player class must meet the following requirements:

- 1. It must inherit from the Person class.
- 2. It must not be inheritable by other classes in the application.

Which code segment should you use?

A)sealed class Player : Person { //TODO: }	
○ B) Abstract class Player : Person { //TODO: }	
○ C)private class Player : Person { //TODO: }	
○ D)partial class Player : Person { //TODO: }	

Question 7	2 pts
The following code is boxed into object o. double d = 34.5; object o = d;	
You're asked to cast "object o" into "int "".	
○ A) int i = (int)o;	
○ B) int i = (int)(double)o;	
© C) int i = (int)(float)(double)o;	
○ D) int i = (float)o;	

Question 8	2 pts
Suppose you're developing an application which stores a user's browser history. collection class will help to retrieve information of the last visited page?	Which
○ A) ArrayList	
○ B) Queue	
C) Stack	
○ D) HashTable	

Question 9	2 pts
Suppose you're writing a class that needs a delegate who can refer a method(s) of input string parameters and return an integer value. Choose the right delegate from following options.	
○ A) Action<int, string="" string,=""></int,>	
B) Func <string, int="" string,=""></string,>	
C) Predicate <int, string="" string,=""></int,>	
○ D) EventArgs <int, string="" string,=""></int,>	

Question 10	2 pts
Suppose you're writing a method that has one input string parameter and it returns the value of the string input parameter is in upper case. Which of the following delegate(s) will you use to refer this method?	True if
○ A) Action <bool, string=""></bool,>	
○ B) Func <bool, string=""></bool,>	
C) Predicate <string></string>	
○ D) EventHandler	

Question 11	2 pts
You have the following code: int [] Marks = new int[] { 59, 24, 40, 100, 35, 75, 90 }; need to get all the marks that are greater than 60. Which code snippet should you (Select two answers)	
☐ A) var query = Marks.Take(60);	

B) var query = Marks.Where(s => s > 60);	
C) var query = Marks.Any(s => s > 60);	
D) var query = from p in Marks where p > 60 select p;	

Question 12	2 pts
In order to perform a query, a data source must be implemented by:	
☐ A) Enumerable or Queryable	
☐ B) Enumerable and Queryable	
C) IEnumerable or IQueryable	
☐ D) IEnumerable and IQueryable	

Question 13	2 pts
An application includes an object that performs a long-running process. You need ensure that the garbage collector does not release the object's resources until the process completes. Which garbage collector method should you use?	
☐ A) WaitForFullGCComplete()	
☐ B) WaitForFullGCApproach()	
C) KeepAlive()	
☐ D) WaitForPendingFinalizers()	

Question 14 2 pts

Suppose you're writing an application that uses unmanaged resource. You've implemented an IDisposable interface to manage the memory of unmanaged resource.

When implementing Dispose method, which method should you use to prevent gacollector from calling the object's finalizer?	arbage
A) GC.SuppressFinalize(this)	
○ B) GC.SuppressFinalize(true)	
○ C) GC.WaitForFullGCApproach()	
O) GC.WaitForPendingFinalizers()	

Question 15	2 pts
You're instantiating an unmanaged resource; which of the following statements use to instantiate an unmanaged resource so that its Dispose method shall alwaytomatically?	•
○ B) try/catch	
C) using()	
O) switch()	

Question 16	2 pts
Which of the following methods is used to run a LINQ query in parallel?	
A) AsParallel();	
○ B) RunParallel();	
○ C) ToParallel();	
OD) Parallel();	

Question 17 2 pts

An application uses multiple asynchronous tasks to optimize performance. You create three tasks by using the following code segment. (Line numbers are included for reference only.)

You need to ensure that the MultipleTasks () method waits until all three tasks complete before continuing. Which code segment should you insert at line 09?

○ A) task.WaitFor(3);			
B) tasks.Yield();			
○ C) tasks.WaitForCor	pletion();		
OD) Task.WaitAll(task);		

Question 18	2 pts
Which jump statement will you use to start the next iteration while skip iteration of loop?	pping the current
○ A) Break	
B) Continue	
○ C) Goto	
○ D) Return	

Question 19	2 pts
You need to use null-coalescing operator to make sure "name" variable must have value not null. Select theright way to use null-coalescing operator in C#.	e a
A) string name = n ?? "No Name";	
○ B) string name = "No Name" ?? null;	
○ C) string name = "No Name" ? null;	
○ D) string name = null ? "No Name";	

Question 20	2 pts
You need to validate a string which has numbers in 333-456 format. Which pattern you choose?	would
○ B) @"\n{3}-\n{3}"	
○ C) @"[0-9]+-[0-9]"	
D) @"\d{3}-\d{3}"	

Question 21	2 pts
Suppose you have the following C# code. StringBuilder sb = new StringBuilder(reallyLongString);	
The <i>reallyLongString</i> variable is a string in which a very long string is stored. You identify whether a string stored in an object named <i>StringToFind</i> is within the <i>StringBuilder sb object</i> . Which code should you use?	need to
a) sb.Equals(stringToFind);	

b) sb.ToString().IndexOf(stringToFind);	
○ c) sb.ToString().CompareTo(stringToFind);	

Question 22	2 pts
An application includes a class named Person. The Person class includes a method named <i>GetData</i> . You need to ensure that the <i>GetData()</i> method can be used only Person class and not by any class derived from the Person class. Which access should you use for the GetData() method?	y by the
○ a) Public	
○ b) Protected internal	
○ c) Internal	
d) Private	
○ e) Protected	

You are developing an application by using C#. The application includes an object that performs a long running process. You need to ensure that the garbage collector does not release the object's resources until the process completes. Which garbage collector method should you use? a) WaitForFullGCComplete() b) SuppressFinalize() c) WaitForFullGCApproach() d) WaitForPendingFinalizers()

You use the Task.Run() method to launch a long-running data processing operation. The data processing operation often fails in times of heavy network congestion. If the data processing operation fails, a second operation must clean up any results of the first operation. You need to ensure that the second operation is invoked only if the data processing operation throws an unhandled exception. What should you do?

a) Create a task within the operation, and set the Task.StartOnError property to true.
b) Create a TaskFactory object and call the ContinueWhenAll() method of the object.
c) Create a task by calling the Task.ContinueWith() method.

O d) Use the TaskScheduler class to create a task and call the TryExecuteTask() method on the

Question 25	2 pts
You are developing an application by using C#. The application includes an object performs a long running process. You need to ensure that the garbage collector release the object's resources until the process completes. Which garbage collemethod should you use?	does not
a) RemoveMemoryPressure()	
b) ReRegisterForFinalize()	
○ c) WaitForFullGCComplete()	
o e) Collect()	

Question 26

class.

2 pts

You have the following C# code. StringBuilder sb = new StringBuilder(reallyLongString);
The reallyLongString variable is a string in which a very long string is stored. You need to identify whether a string stored in an object named StringToFind is within the StringBuilder sb object. Which code should you use?

output

outpu

Question 27	2 pts
You are creating a class named Game. The Game class must meet the following requirements:	
 Include a member that represents the score for a Game instance. Allow external code to assign a value to the score member. Restrict the range of values that can be assigned to the score member. 	
You need to implement the score member to meet the requirements	
○ a) protected field	
○ b) public static field	
○ c) public static property	
d) public property	

Question 28 2 pts

You need to write a method that retrieves data from a Microsoft Access 2013 database. The method must meet the following requirements:

It must be read-only.

 You must be able to use the data before the entire data set is retrieved You must minimize the amount of system overhead and the amount of memory usage.
Which type of object should you use in the method?
○ a) SqlDataAdapter
○ b) DataContext
○ c) DbDataAdapter

Question 29	2 pts
You are developing an application that will parse a large amount of text. You need parse the text into separate lines and minimize memory use while processing data. Which object type should you use?	
○ a) DataContractSerializer	
○ b) StringBuilder	
c) StringReader	
○ d) JsonSerializer	

You need to store the values in a collection. The solution must meet the following requirements: • The values must be stored in the order that they were added to the collection. • The values must be accessed in a first-in, first-out order. Which type of collection should you use?

d) OleDbDataReader

b) Queue	
○ c) ArrayList	
○ d) Hashtable	
Question 31	2 pts
The System.SystemException class is the base class for all p in C#?	redefined system exception
True	
○ False	
Question 32	2 pt
	2 pt
	2 pt
The comparison operators can be overloaded.	2 pt
The comparison operators can be overloaded. ○ True	2 pt
The comparison operators can be overloaded. True False	
The comparison operators can be overloaded. O True False Question 33	
	2 pts

Question 34	2 pts
In C#, a function needs to be defined using the static keyword, so that it can be call from the Main function.	ed
True	
○ False	

Question 35	2 pts
If a function returns no value, the return type must be declared as void.	
● True	
○ False	

Question 36	2 pts
In a function, the return statement is not required if the return type is anything othe void.	er than
True	
○ False	

Question 37	2 pts
A local variable declared in a function is not usable outside that function.	
True	

○ False			

Question 38	2 pts
A function can have more than one parameter. Values of the parameters are pasthe function when it is called.	ssed to
True	
○ False	

Question 39	2 pts
In C#, a function can be overloaded. Overloading a function means you can give the same name to many function, but different in their arguments.	ie
True	
○ False	

Question 40	2 pts
An object of a derived class cannot access private members of base class.	
● True	
○ False	

Quiz saved at 2:03am

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