CS101 Final Term Fall-2020 Grand Solution File By Sohail Zubair

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Q1: Different B/W high level language and low level language?

Sr. No.	High Level Language	Low Level Language
1	It is programmer friendly language.	It is a machine friendly language.
2	It is easy to understand.	It is tough to understand.
3	A **high-level language** is a **programming language** that uses English and mathematical symbols in its instructions	**Machine language**, or **machine code**, consists of binary **code** and is the only **language** that is directly understood by the **computer**.

Q2: what is register and it use?

A CPU consists of three parts (ALU, MU/Register Unit and Control Unit). **Register unit**, which contains data storage cells (similar to main memory cells), called registers, that are used for temporary storage of information within the CPU.

Q3: how to define syntax of array?

One common data structure is the **array**, which is a block of elements of the same type, Syntax to declare a 2-D array is:

int Scores[2][9];

Where **int** is data type, **Scores** is name of array **2** are Rows and **9** are column.

Q4: What is parts of insert ribbon in MS word?

These are the parts of Insert Ribbon of MS Word:

- Pages
- Table
- Illustrations
- Apps

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- Media
- Links
- Comments
- Header & Footer
- Text
- Symbols

Q5: How many type of sorts in MS Excel?

There are two types of sort in MS-Excel

- Ascending Sort (A-Z or 1-9)
- Descending Sort (Z-A or 9-1)

Q6: What is Stack and Where to Use?

A stack is a list in which entries are inserted and removed only at the head. An example is a stack of books where physical restrictions dictate that all additions and deletions occur at the top. Stack being known as a last-in, first-out, or LIFO (pronounced “LIE-foe”) structure.

This LIFO characteristic means that a stack is ideal for storing items that must be retrieved in the reverse order from which they were stored, and thus a stack is often used as the underpinning of backtracking activities. (The term backtracking refers to the process of backing out of a system in the opposite order from which the system was entered.

Q7: Uses of Internet

Following are the common uses of the Internet

- E-mail
- VoIP
- Internet Multimedia Streaming
- FTP
- Electronic newspapers and magazines
- Discussion groups
- Interactive games

Q8: What is Tree Data Structure?

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A tree is a collection whose entries have a hierarchical organization similar to that of an organization chart of a typical company. Each position in a tree is called a node. The node at the top is called the root node. The nodes at the other extreme are called terminal nodes (or sometimes leaf nodes).

Q9: what is Basis Path Testing?

Another software testing methodology, called basis path testing, is to develop a set of test data that insures that each instruction in the software is executed at least once.

Q10: What is Glass-Box and Black-Box Testing?

Techniques based on the Pareto principle and basis path testing rely on knowledge of the internal composition of the software being tested. They therefore fall within the category called glass-box testing, meaning that the software tester is aware of the interior structure of the software and uses this knowledge when designing the test. In contrast is the category called black-box testing, which refers to tests that do not rely on knowledge of the software's interior composition? In short, black-box testing is performed from the user's point of view. In black-box testing, one is not concerned with how the software goes about its task but merely with whether the software performs correctly in terms of accuracy and timeliness.

Q11: What is Beta Testing?

Beta testing in which a preliminary version of the software is given to a segment of the intended audience with the goal of learning how the software performs in real-life situations before the final version of the product is solidified and released to the market.

Q12: What is Alpha Testing?

In which a preliminary version of the software is given to a segment of the intended audience with the goal of learning how the software performs at the developer's site is called alpha testing.

Q13: What is boundary value analysis?

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An example of black-box testing is the technique, called boundary value analysis, that consists of identifying ranges of data, called equivalence classes, over which the software should perform in a similar manner and then testing the software on data close to the edge of those ranges.

Q14: What is CASE Tool?

Computer-aided software engineering (CASE), is continuing to streamline and otherwise simplify the software development process. CASE has led to the development of a variety of computerized systems, known as CASE tools.

Q15: What is Control Structure (Loop)?

The repetitive use of an instruction or sequence of instructions is an important algorithmic concept. One method of implementing such repetition is the iterative structure known as the loop. The syntax of while loop is:

Initialization of variable

While (condition)

{

Body of loop

}

Q16: What is firewall?

A firewall is a security-conscious piece of hardware or soft-ware that sits between the Internet and your network with a single-minded task: preventing them from getting to us. The firewall acts as a security guard between the Internet and your local area network (LAN).

Q17: What is the full form of?

EPIC: Electronic Privacy Information Center

PI: Privacy International

Q18: Translation of mnemonic addresses into internet compatible IP address is done during the communication over the internet which layer performs this task?

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To fulfill this need, the application layer may use the services of the name servers within the Internet to translate mnemonic addresses used by humans into Internet -compatible IP addresses.

Q19: Given below are the Excel spreadsheet formulas. Correct these formulas if there is any error

1- MAX(C-36+E36+E7-E12)

Correct Solution is : MAX(C36,E36,E7,E12)

Q20: Write the select query for the following statement;- Select an employee whose ID is 123, from the employee tab.

Select * from employee where ID=123;

Q21: Draw the conceptual layout of the following structure;

Stract {char name[25];

int age;

Solution: See Hand out Page 204 Diagram.

Q22: How many commands editing group have in home ribbon? List three

There are three commands on Editing Group of Home ribbon

- Find
- Replace
- Select

Q23: Block and Inline Element in HTML

BLOCK elements always start after a new line and the content is displayed in the next line in browser.

Examples: <h1>, <p>, <ul>, <table>

Inline elements are usually displayed on the browser without starting a new line.

Examples: <b>, <td>, <a>, <img>

Q24: Write truth Table for AND Function

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Truth Table

Operator	1st Condition	2nd Condition	Output
AND	True	True	True
	True	False	False
	False	True	False
	False	False	False
OR	True	True	True
	True	False	True
	False	True	True
	False	False	False
NOT	True	–	False
	False	–	True

Q25: What is Placeholder in PowerPoint?

A placeholder is a container that is used to display content, such as text, table, picture, movies, sound, clip art, chart, SmartArt etc. A placeholder can be resized, moved and edited.

Q26: What is Content Filtering?

Content filtering, in the most general sense, involves using a program to prevent access to certain items, which may be harmful if opened or accessed. The most common items to filter are executable, emails or websites.

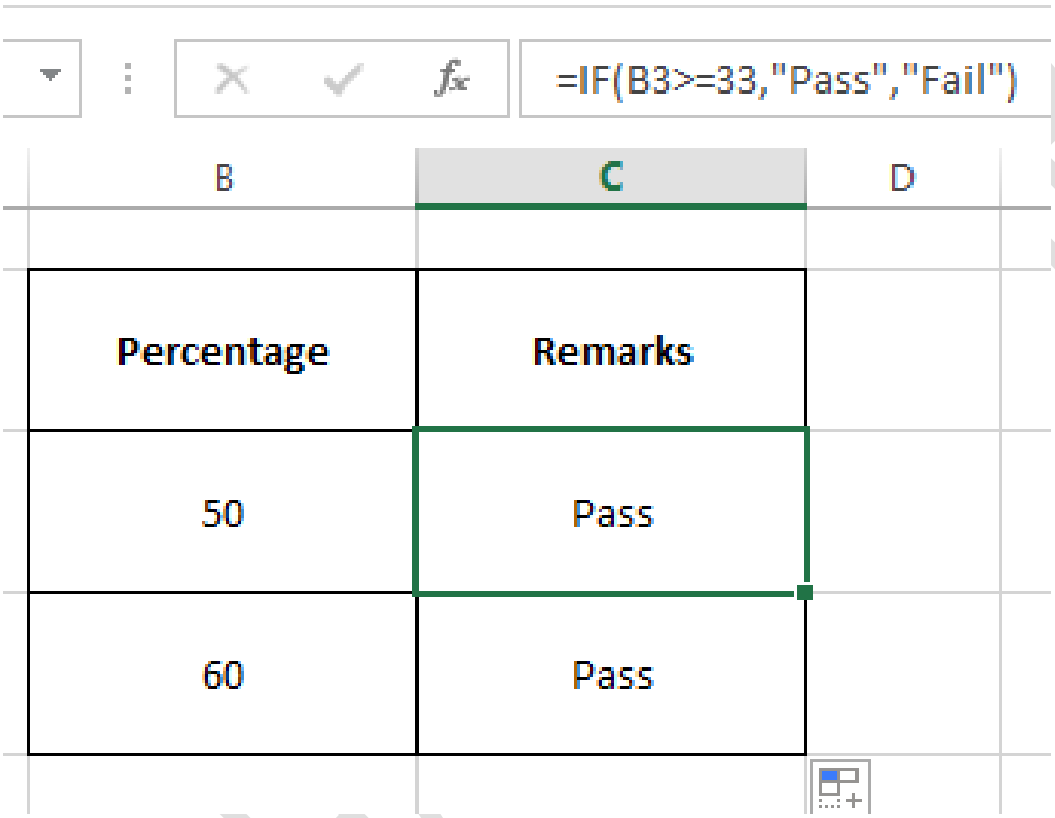
Q27: What is CAN-SPAM Act?

CAN-SPAM Act

1. Don't use false or misleading header information
2. Don't use deceptive subject lines
3. Identify the message as an ad

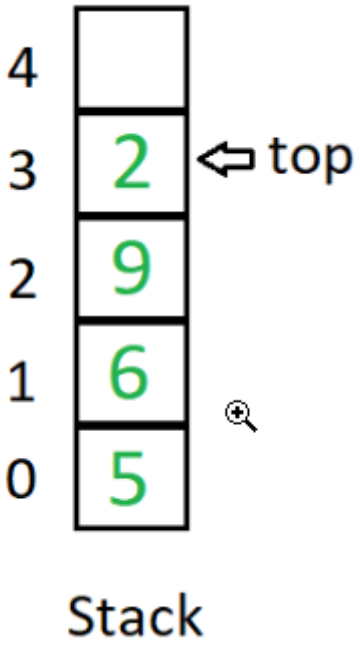
4. Tell recipients where you're located
5. Honor opt-out requests promptly
6. Monitor what others are doing on your behalf

Q28: Write Excel "IF" Formula If marks greater than 33 than Pass else Fail

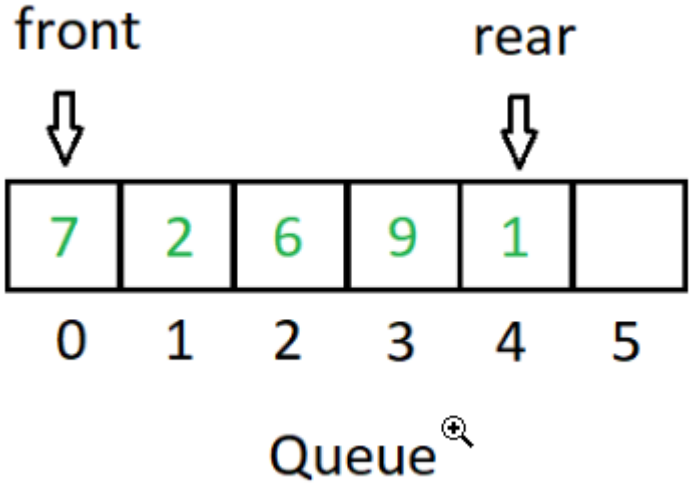


Q29: Difference between Stack and Queue Data Structures

Stack A stack is a linear data structure in which elements can be inserted and deleted only from one side of the list, called the top. A stack follows the LIFO (Last In First Out) principle, i.e., the element inserted at the last is the first element to come out. The insertion of an element into stack is called push operation, and deletion of an element from the stack is called pop operation.



Queue: A queue is a linear data structure in which elements can be inserted only from one side of the list called rear, and the elements can be deleted only from the other side called the front. The queue data structure follows the FIFO (First In First Out) principle, i.e. the element inserted at first in the list, is the first element to be removed from the list. The insertion of an element in a queue is called an enqueue operation and the deletion of an element is called a dequeue operation.



Q30: There are multiple phases in traditional development life cycle write only fours.

The major steps in the traditional software development life cycle are **requirements analysis**, **design, implementation, and testing**.

Q31: Twitter and Facebook which type of website category?

Twitter and Facebook belong to Social website category.

Q32: List two effects on environment when throwing away e-waste

- E-waste is sent to developing countries where people extract materials from these electronics such as gold, silver, and copper.
- They extract them by burning the substances and that process releases hazardous smoke into the air.
- The people present around the e-waste gain diseases such as skin cancer, brain damage, lung cancer, kidney disease.

Q33: Difference between Requirement analysis and Design phase?

The software life cycle begins **with requirements analysis**— the goal of which is to specify what services the proposed system will provide, to identify any conditions (time constraints, security, and so on) on those services, and to define how the outside world will interact with the system.

It is in the **design stage** that the internal structure of the software system is established. The result of the design phase is a detailed description of the software system's structure that can be converted into programs.

Q34: How blood taking robot works?

This robot is able to take blood from the veins of the humans and it is more accurate than humans. It performs image processing to locate the veins and further confirmed by the ultrasound.

Q35: Negative impact of Computer science on human health

- Computer wrists – Typing too much. This creates issues in the hands.
- Eyesight – eye is not meant to look 2D for long amount of time. This increases the risk of eye diseases.
- Hearing loss is more common in those listening to high volume music on computer.
- Social Isolation

- Communication Issues
- Posture could lead bone issues
- Radiation Damage when the device is running. It's better to put off all such digital devices especially mobile phones or if it's really necessary to use mobile phone as alarm, then turn on the "airplane mode" in your phones.

Q36: Difference between Coupling and Cohesion?

Consequently, a goal when designing a modular system should be to maximize independence among modules or, in other words, to minimize the linkage between modules (known as **inter-module coupling**).

Just as important as minimizing the coupling between modules is maximizing the internal binding within each module. **The term cohesion** refers to this internal binding or, in other words, the degree of relatedness of a module's internal parts.

Q37: What is Identifier and its types?

An identifier is a string of alphanumeric characters that begins with an alphabetic character or an underscore character that are used to represent various programming elements such as **variables**, **functions**, **arrays**, **structures**, **unions** and so on. Actually, an identifier is a **user-defined word**.

Q38: Issue with parallel processing?

A more complex issue associated with parallel processing involves handling communication between threads.

Q39: IPR stand for and its purpose

Intellectual property rights (IPR) are specific legal rights which protect the owners of IP. Successful management of IPR provides the means by which individuals and institutions are able to protect their creative output from imitators.

Q40: What is a Turing Test?

A Turing Test is a method of inquiry in artificial intelligence (AI) for determining whether or not a computer is capable of thinking like a human being. The test is named after Alan Turing.

Q41: What is the syntax of array?

```
int foo[] = { 10, 20, 30 };
```

Q42: Purpose of select query of databases

A SELECT statement retrieves zero or more rows from one or more database tables or database views. In most applications, SELECT is the most commonly used data manipulation language (DML) command.

Q43: Abbreviation of the following?

Data privacy, also called information privacy deals with the ability an organization or individual has to determine what data in a computer system can be shared with third parties.

Children's Online Privacy Protection Act

(**COPPA**) - gives parents control over what information websites can collect from their kids.

Health Insurance Portability and Accountability Act

(**HIPPA**) - ensures patient confidentiality for all healthcare-related data.

Electronic Communications Privacy Act

ECPA extends government restrictions on wire taps to include transmissions of electronic data.

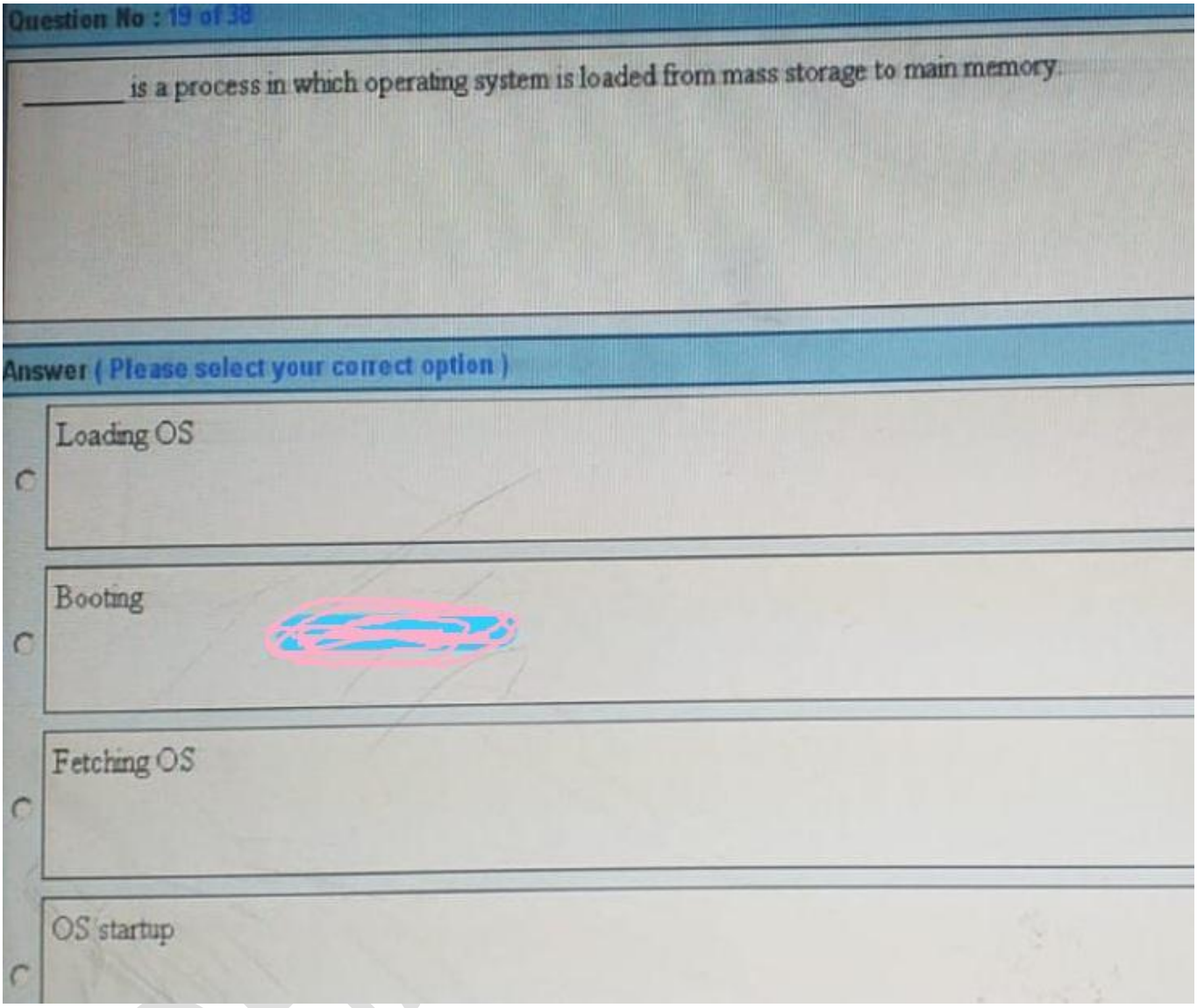
Q43: Basic operation perform by the Kernel

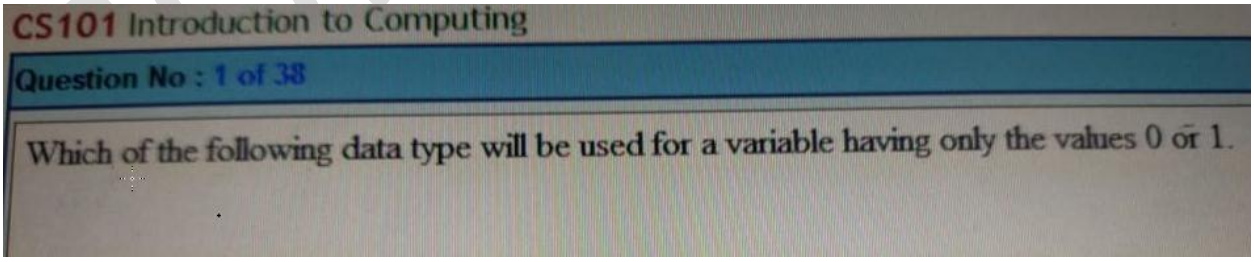
A Kernel is the central component of an Operating System. The **Kernel** is also said to be the heart of the Operating System.

The main functions that the Kernel performs are as follows:

1. Process Management
2. Memory Management
3. Device Management
4. Interrupt Handling
5. Input Output Communication

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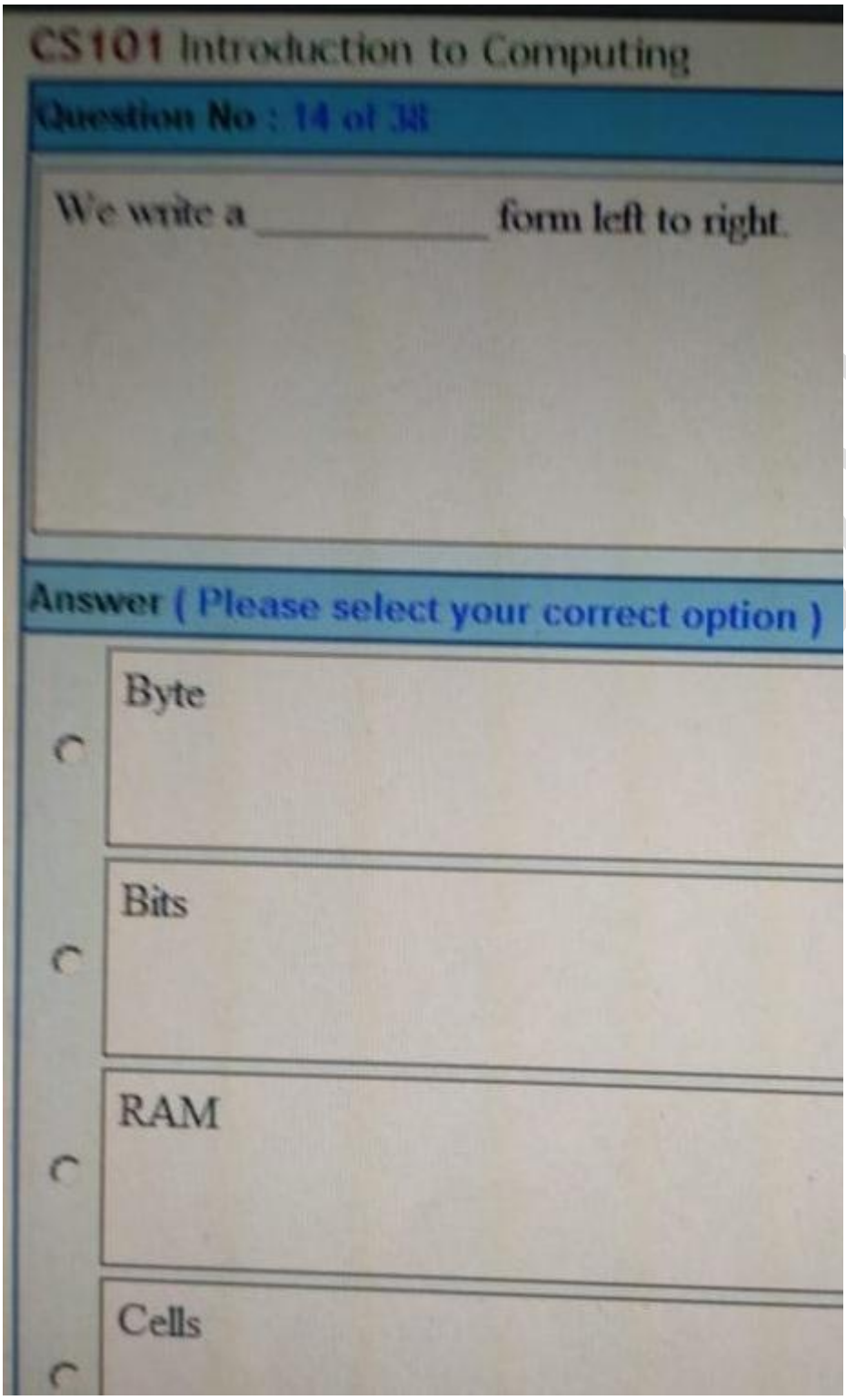
A. Integer
B. Float
C. String
D. Boolean

Question No : 10 of 38

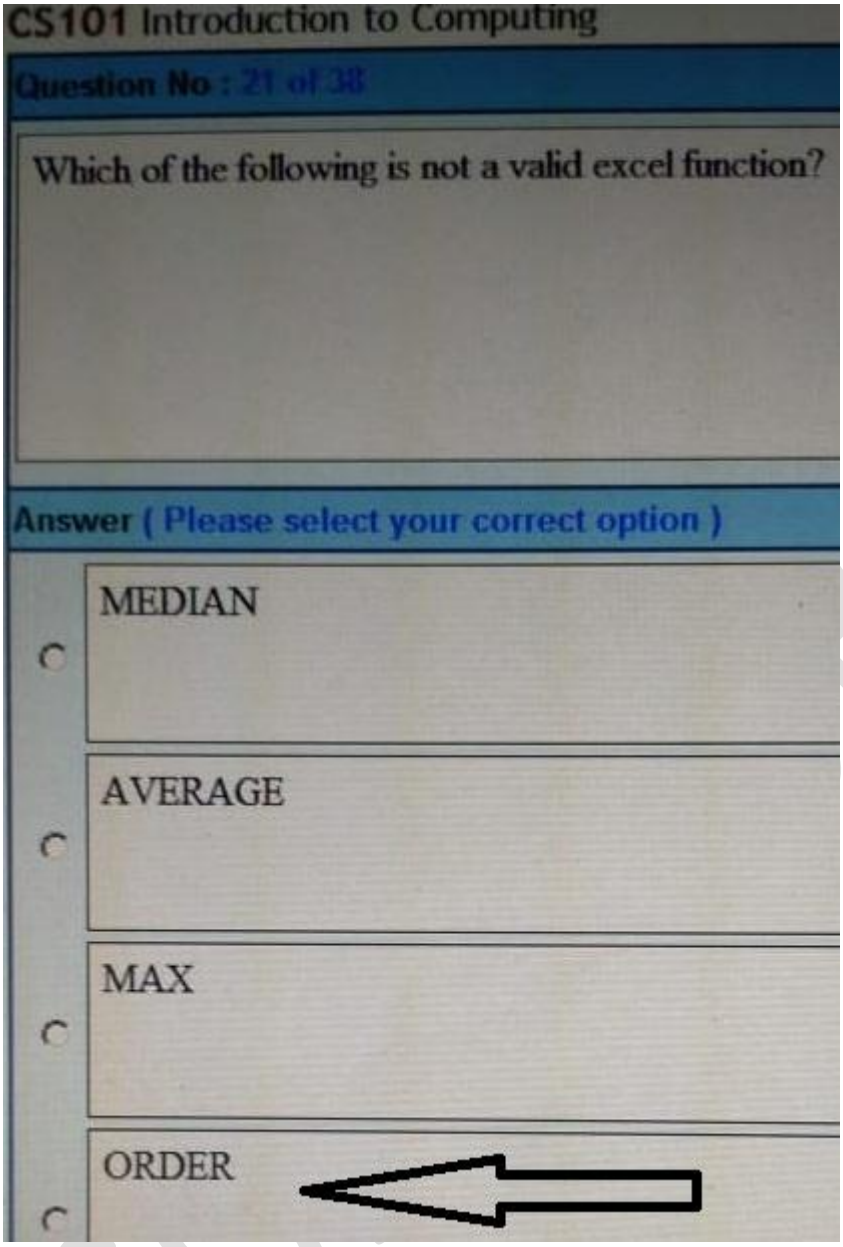
A person involved with the entire development process, requirements analysis and design steps is:

Answer (Please select your correct option)

- Software Analyst
- System User
- System Programmer
- System Tester



Ambiguity in the question so my point of view is Cells because cell write in excel from left to right.


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Question No : 21 of 38
Which of the following is not a valid excel function?
Answer (Please select your correct option)
MEDIAN
AVERAGE
MAX
ORDER

Question No : 12 of 38

Things thought to be secure can be accessed by unintended sources such as:

Answer (Please select your correct option)

- Email
- Private accounts
- Shared data
- All of these

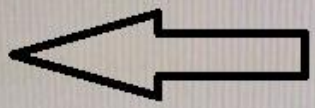


Correct Answer

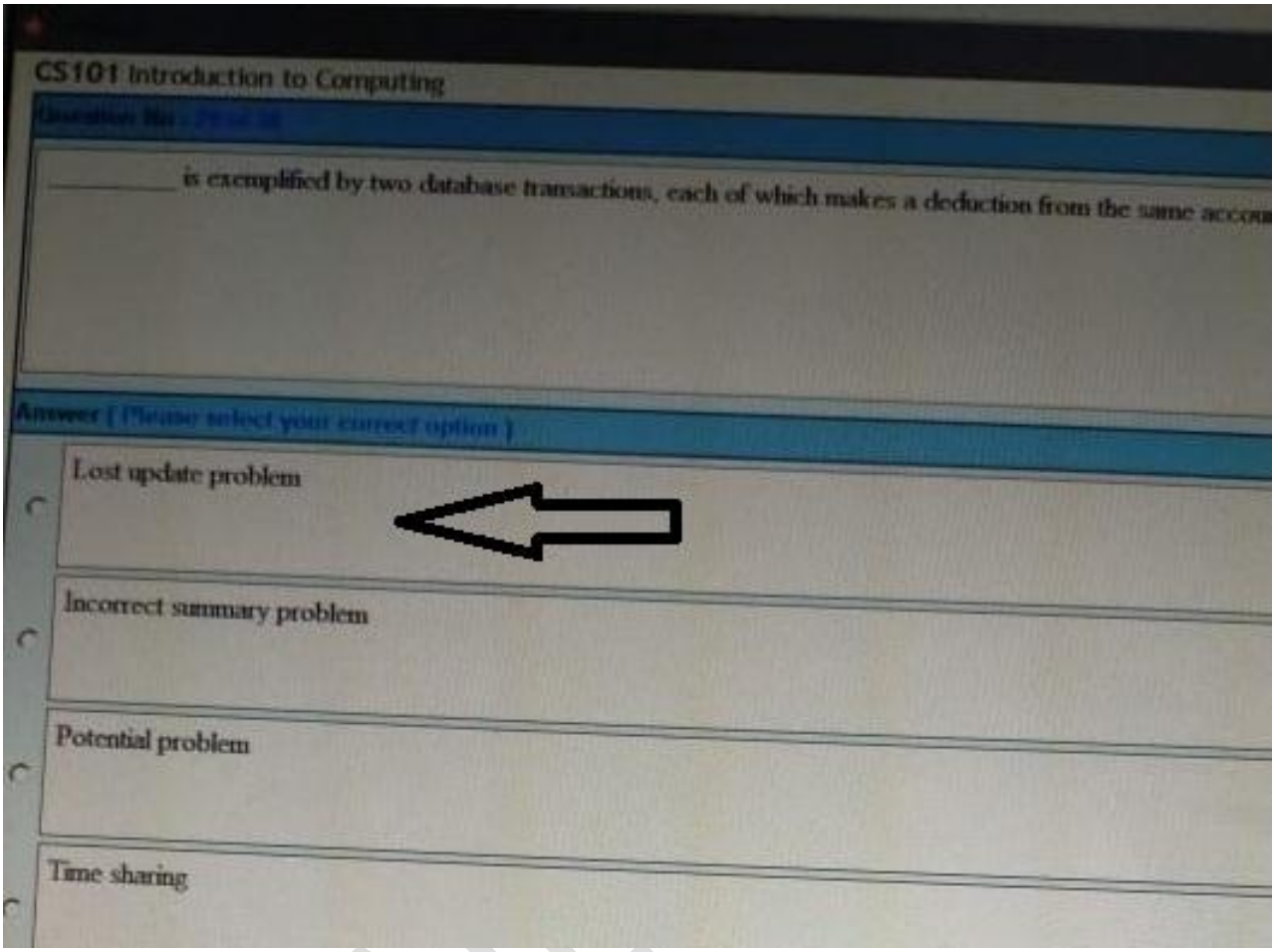
Which of the following testing technique focuses on the functional requirements of the software?

nswer (Please select your correct option)

- Black box testing
- White box testing
- Control structure testing
- Green box testing



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_____ is exemplified by two database transactions, each of which makes a deduction from the same accou
Answer [Please select your correct option]
Lost update problem
Incorrect summary problem
Potential problem
Time sharing

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Question No : 27 of 38

The intellectual property of a University can be:

nswer (Please select your correct option)

- Result of their students
- Personal data of their staff
- Personal data of their students
- Results and outcomes of research being carried at the university



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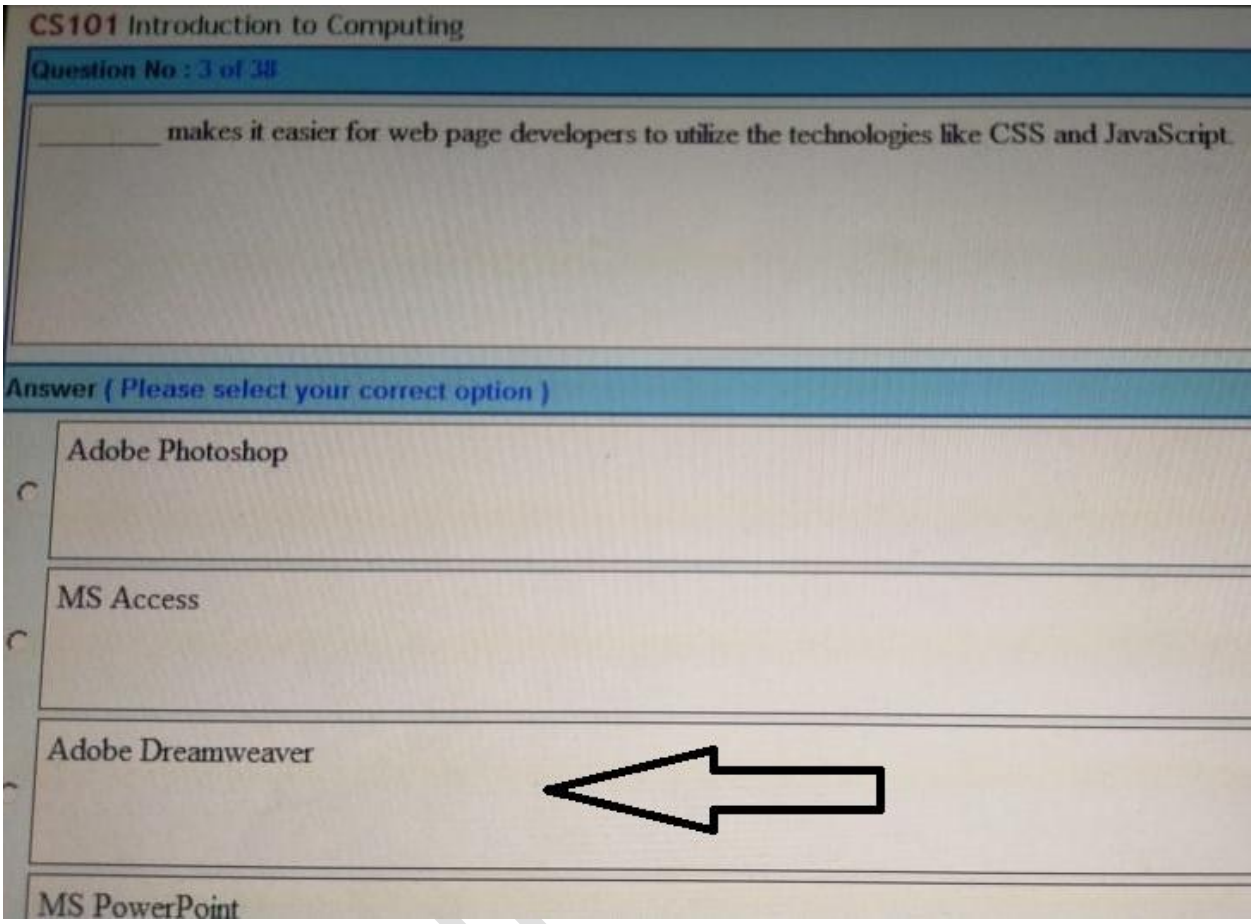
Question No : 17 of 38

Address of cell containing value "8" in spread sheet given belo

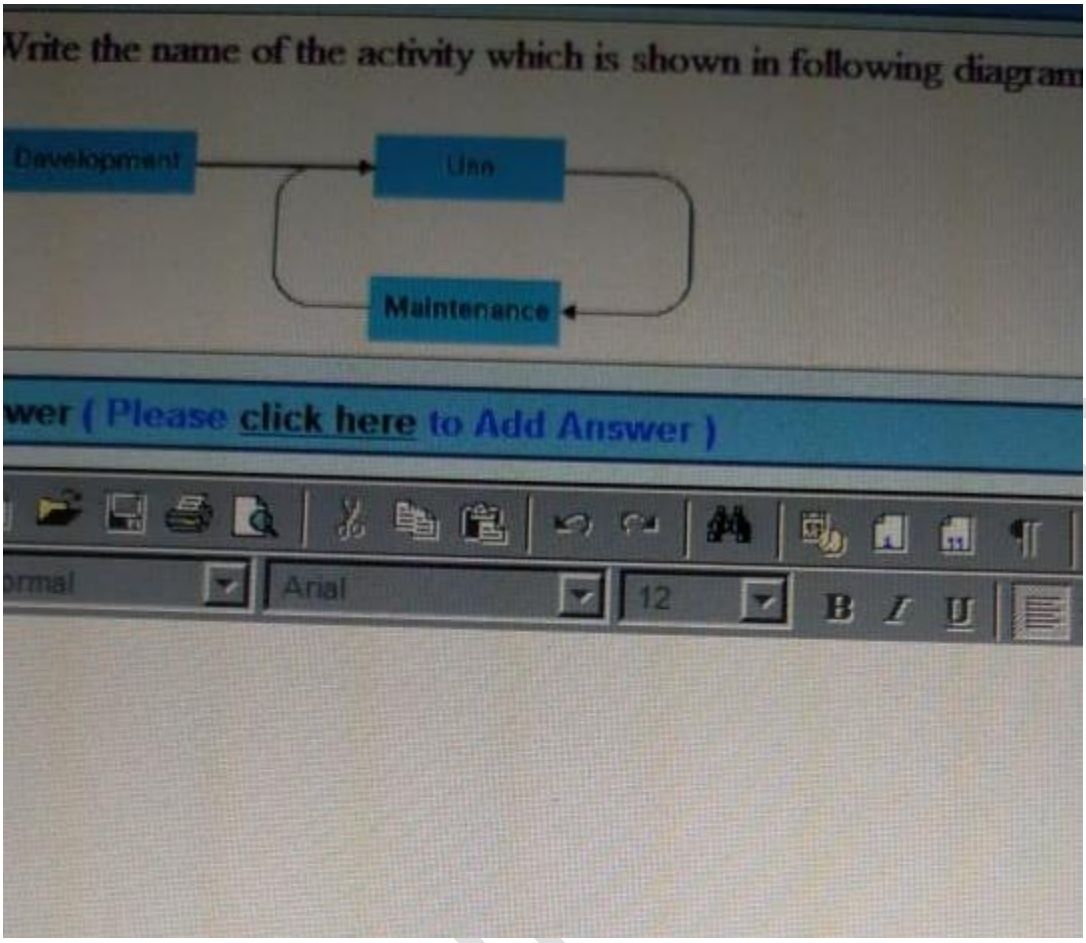
	A	B
1	1	2
2	4	5
3	7	8

Answer (Please select your correct option)

- 3B
- A3
- B3
- B8

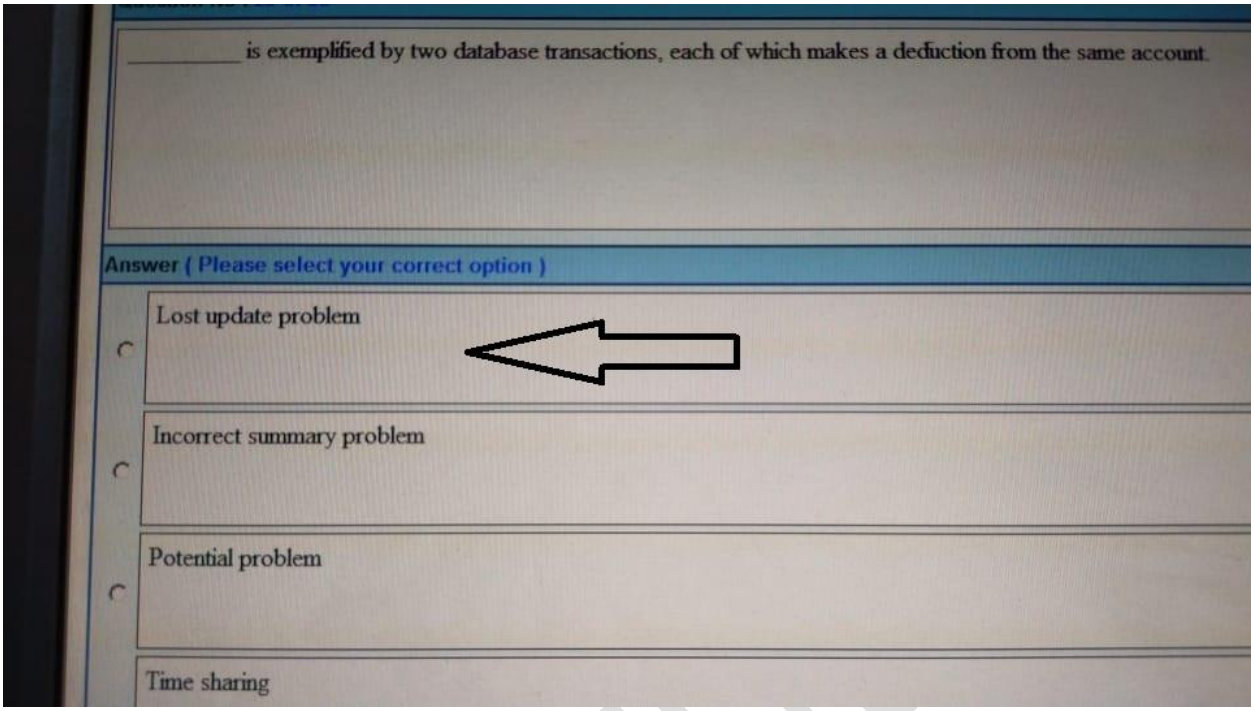

CS101 Introduction to Computing
Question No : 3 of 38
_____ makes it easier for web page developers to utilize the technologies like CSS and JavaScript.
Answer (Please select your correct option)
Adobe Photoshop
MS Access
Adobe Dreamweaver
MS PowerPoint

SOHAIL

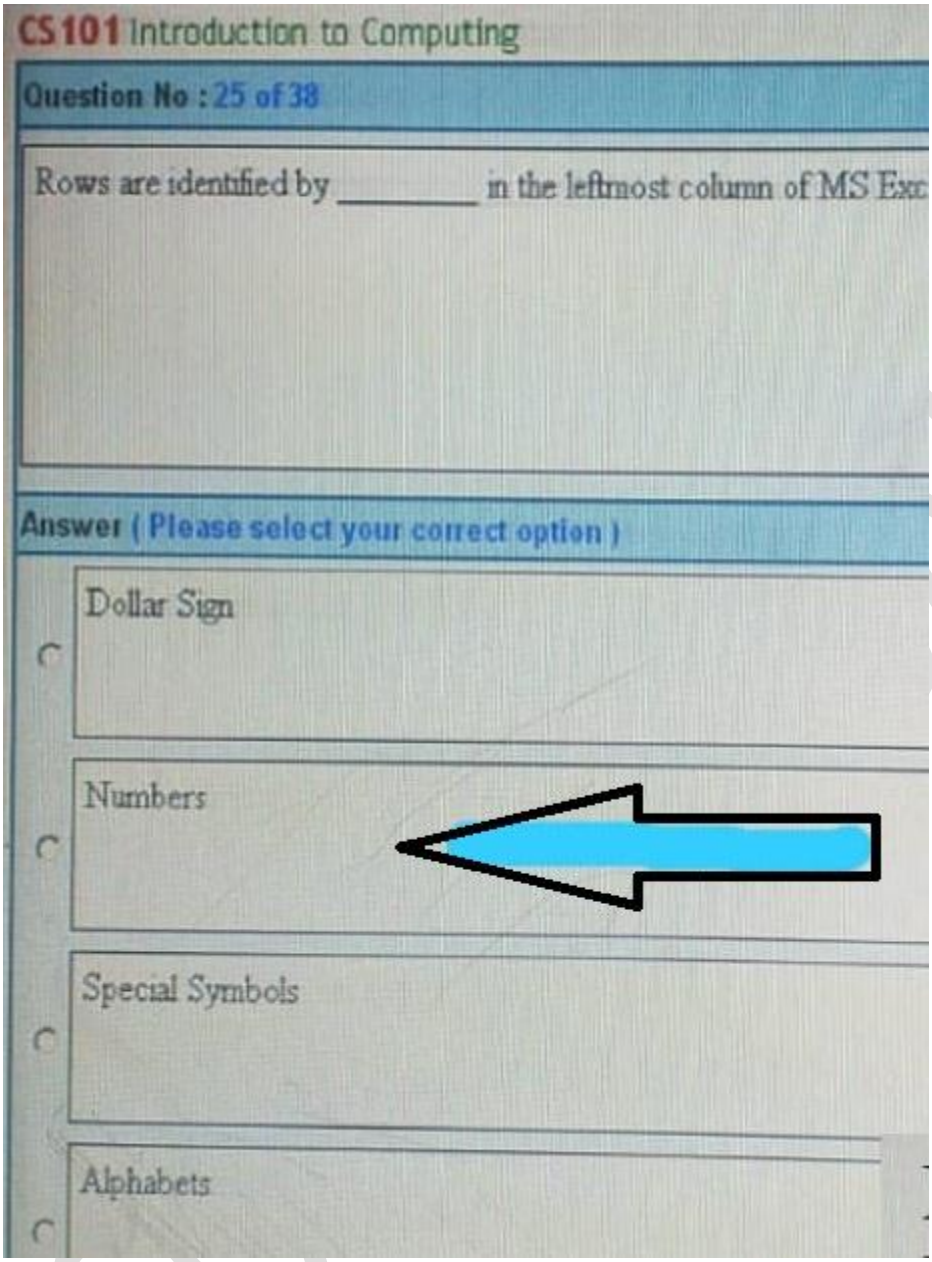


Software life cycle.

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_____ is exemplified by two database transactions, each of which makes a deduction from the same account.
Answer (Please select your correct option)
Lost update problem
Incorrect summary problem
Potential problem
Time sharing

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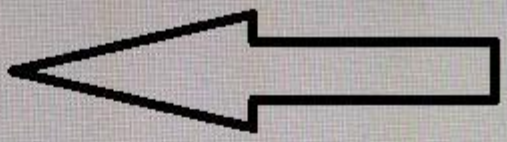

CS101 Introduction to Computing
Question No : 25 of 38
Rows are identified by _____ in the leftmost column of MS Exc
Answer (Please select your correct option)
Dollar Sign
Numbers
Special Symbols
Alphabets

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Question No : 16 of 38

The home tab in Excel and PowerPoint are:

Answer (Please select your correct option)

- Different 
- Similar
- Simple
- Complex

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Question No : 23 of 38

Which operations are performed by stack pointer during its incremental phase ?

Answer (Please select your correct option)

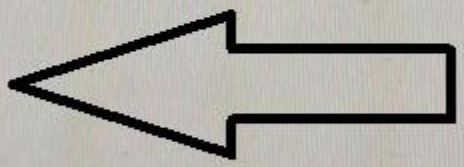
- Push
- Pop
- Return
- Insert

Question No : 18 of 38

Page group options include:

Answer (Please select your correct option)

- Font
- Page margins
- Page break
- All of these



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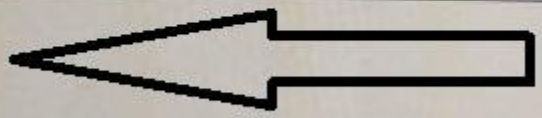
Question No : 19 of 38

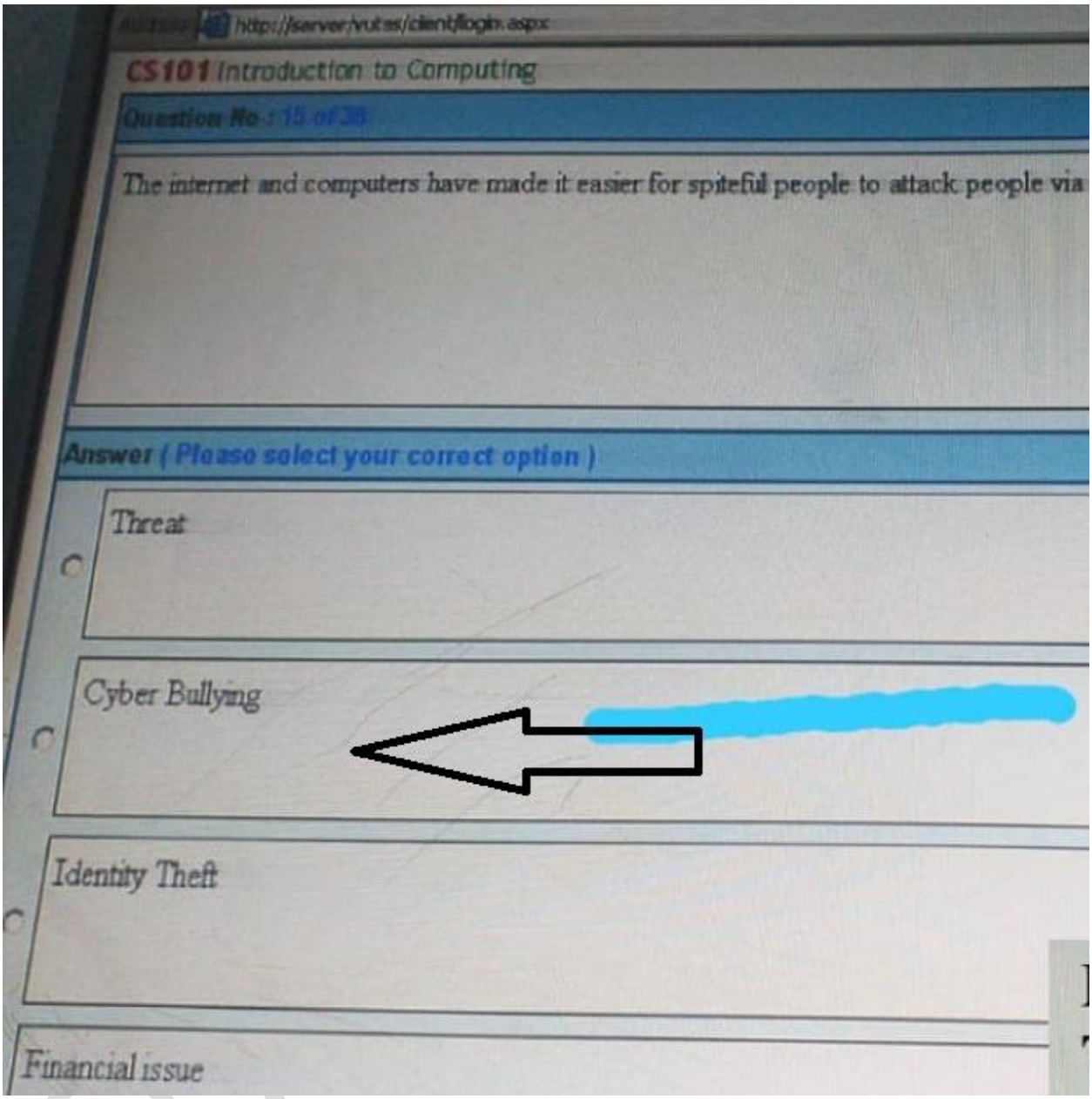
What will be the output of the following excel formula? If A1=11, C1= 2

=(A1-C1)*2

Answer (Please select your correct option)

- -18
- 9
- 18
- 10



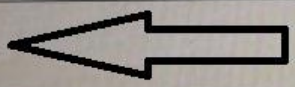

http://server/vutes/clientlogin.aspx
CS101 Introduction to Computing
Question No : 15 of 20
The internet and computers have made it easier for spiteful people to attack people via
Answer (Please select your correct option)
Threat
Cyber Bullying
Identity Theft
Financial issue

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Question No : 25 of 38 Marks: 1

The _____ is a condition in which two or more processes are blocked because each one is waiting for a resource that is allocated to another

Answer (Please select your correct option)

- Forking
- Process Halt state
- Deadlock 
- Process Blocked state

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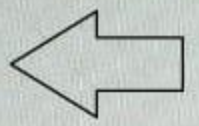
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Question No : 20 of 38

Which of the following is valid type of sort in MS Excel

Answer (Please select your correct option)

- Merge Sort
- Quick Sort
- Bubble Sort
- Basic Sort



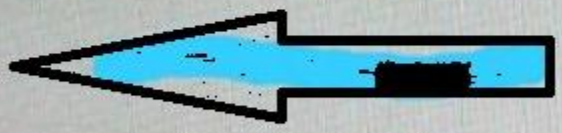
BAIR

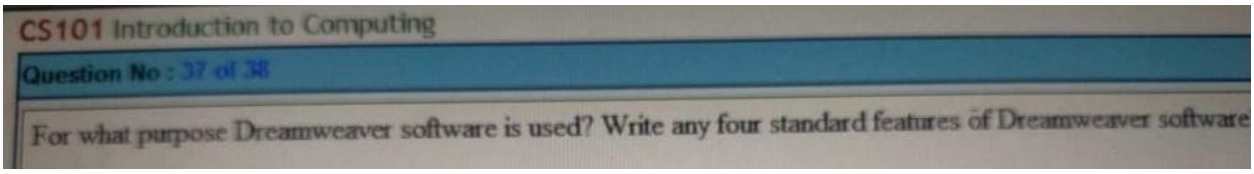
Question No : 18 of 30

Fatal Therac-25 X-ray Radiation is an example of _____.

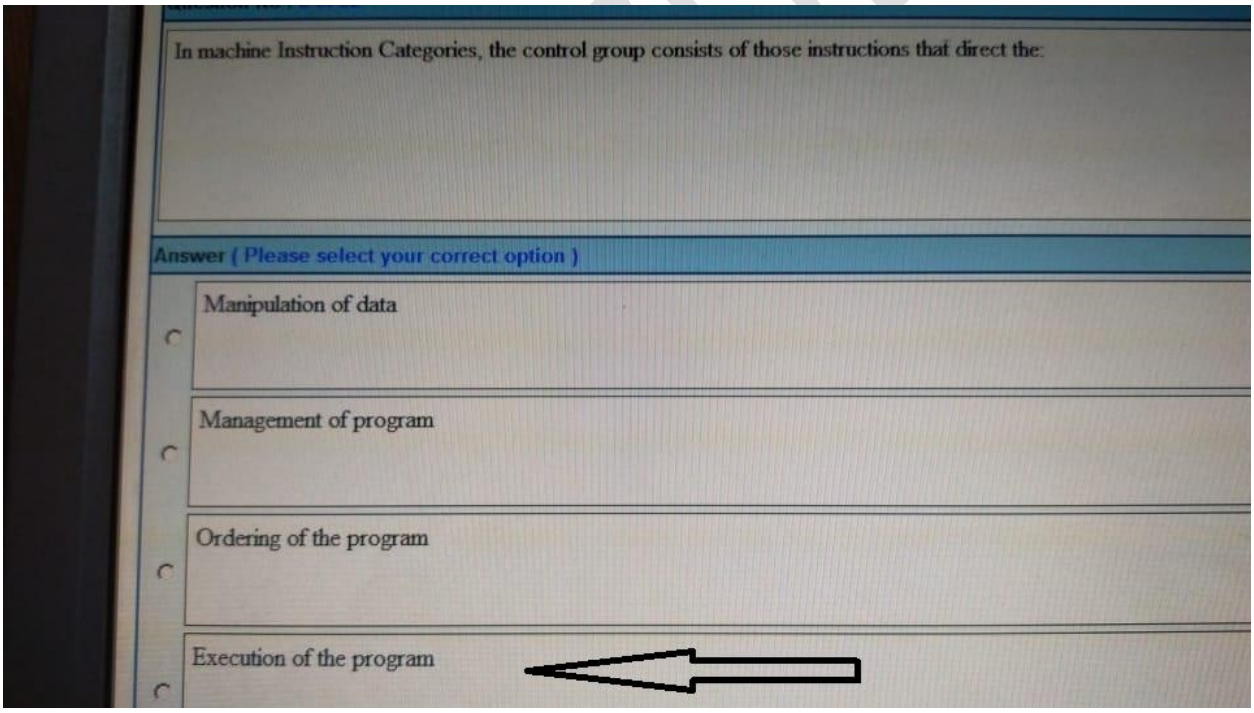
Answer (Please select your correct option)

- Software Modularity
- Software requirement gathering
- Software failure
- Software success





Adobe Dreamweaver is a web design and development application that provides a visual WYSIWYG editor (What You See Is What You Get) and a code editor with standard features such as **syntax highlighting**, **code completion**, and code **collapsing** as well as more sophisticated features such as **real -time syntax checking** and code **introspection** for generating code hints to assist the user in writing code.



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Question No : 22 of 38

In MS word we have a draw text box option in:

Answer (Please select your correct option)

- Pages
- Insert
- Design
- Text box

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Question No : 38 of 38

Write the projection queries for the following statements

1. Show id, and name of all students from student table
2. Show id and salary of all employees from employee table

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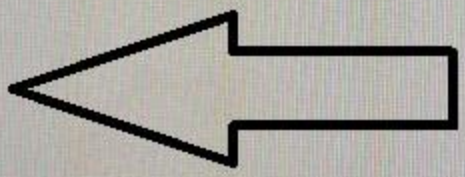
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Question No : 28 of 38

In MS Word page group have_____ options.

Answer (Please select your correct option)

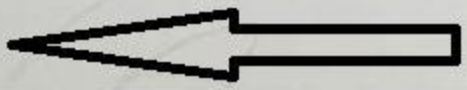
- One
- Two
- Three
- Four



Question No : 7 of 38

What does ICANN stands for?

Answer (Please select your correct option)

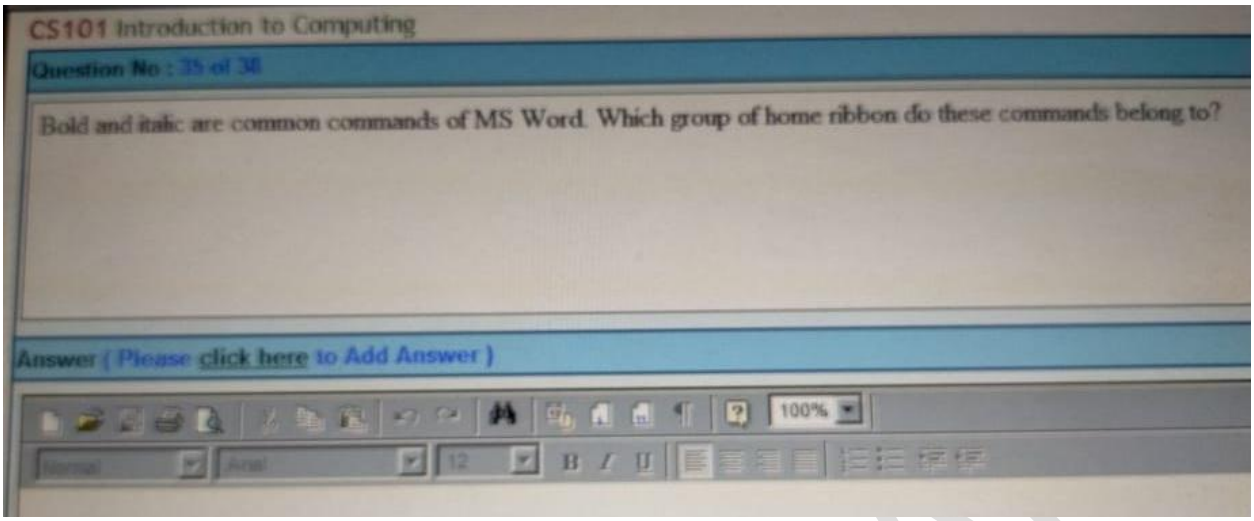
- International Corporation for Authentic Names and Numbers
- Internet Corporation for Assigned Names and Numbers 
- Internet Corporation for Authentic Names and Numbers
- Internet Corporation for Authorized Names and Numbers

Question No :

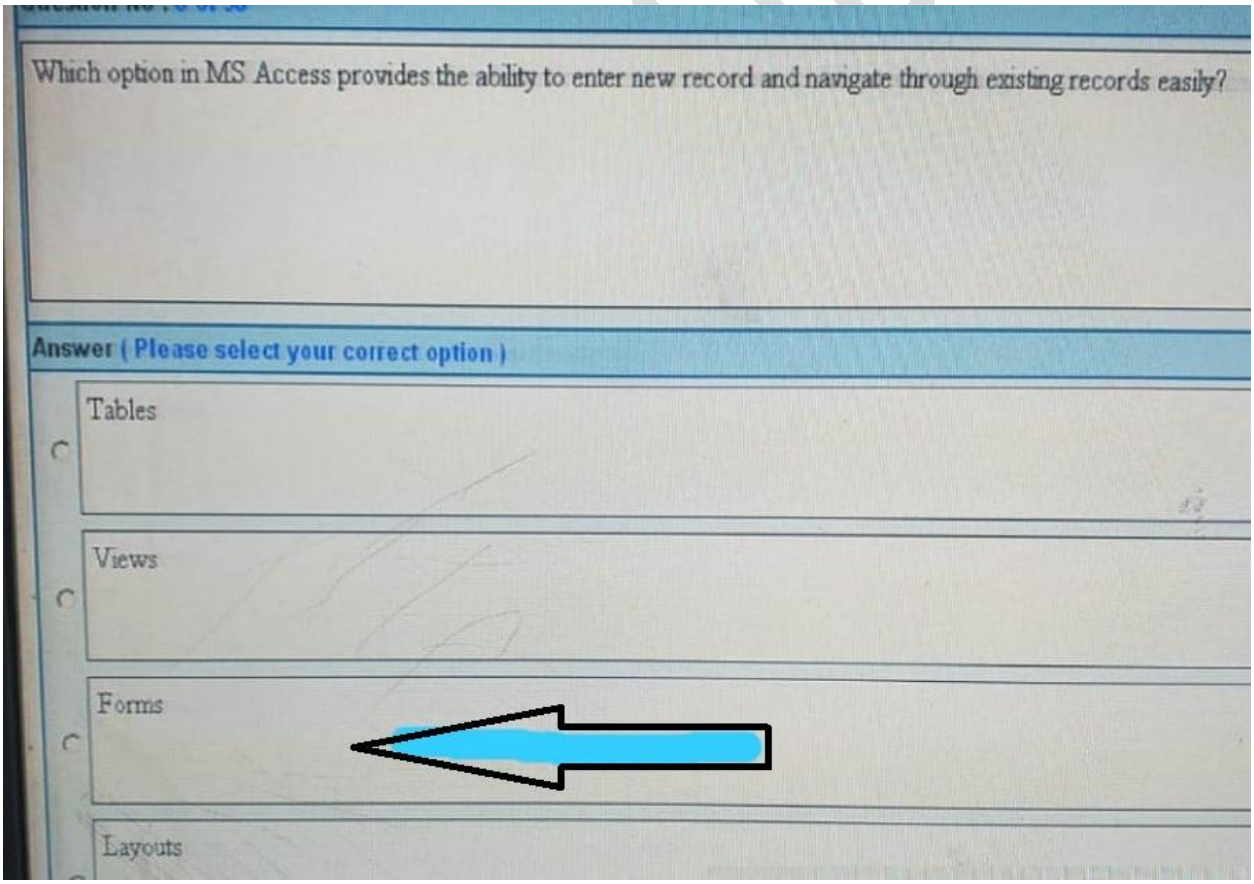
GIF is abbreviation of

Answer (Please select your correct option)

- Graphic Intersection Format
- Graphic Interchange Format
- Graphic Interchangeable Format
- Graphic Interchange Frame



Bold and Italic belongs to Font group of Home Tab in MS-Word.



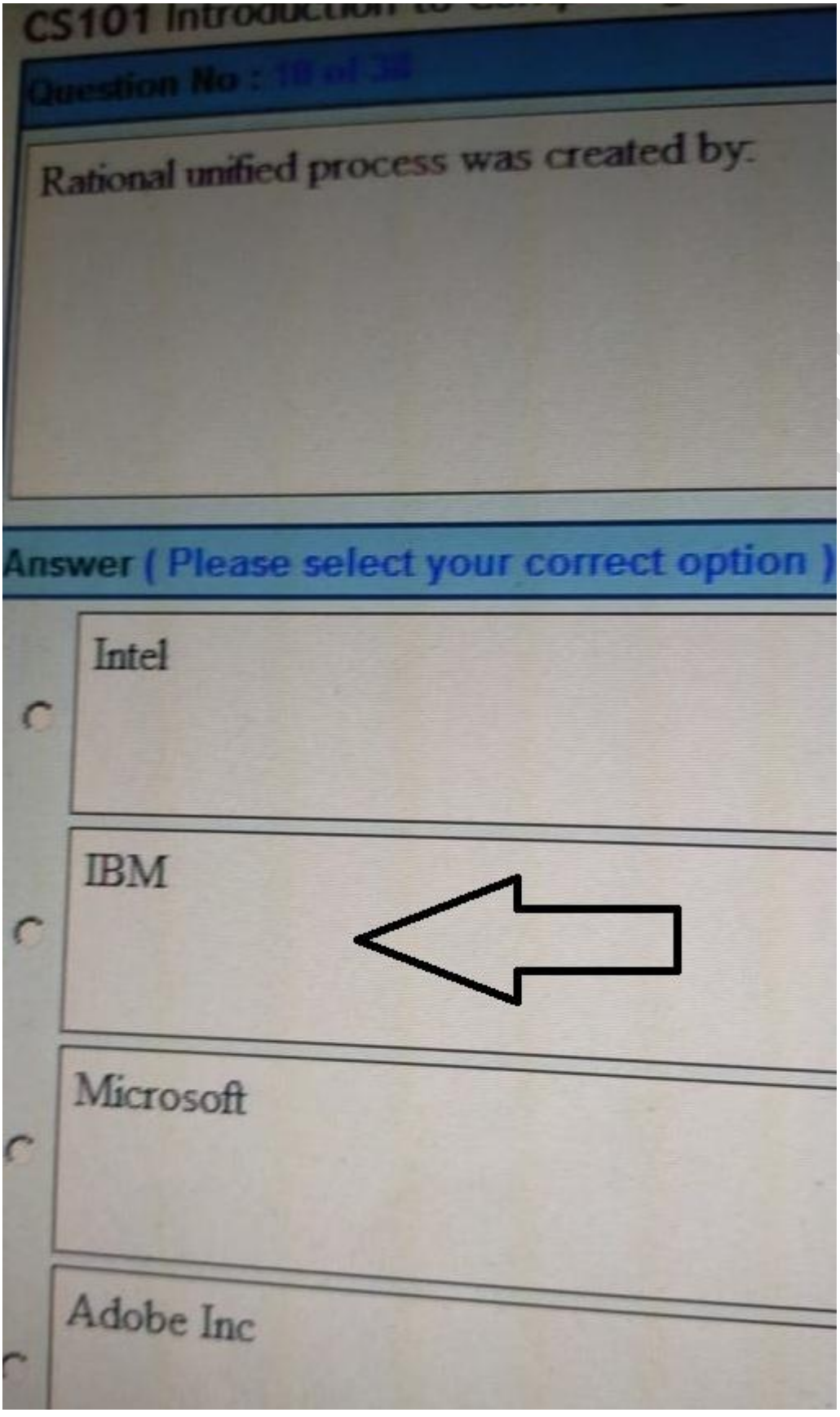
CS101 Introduction to Computing

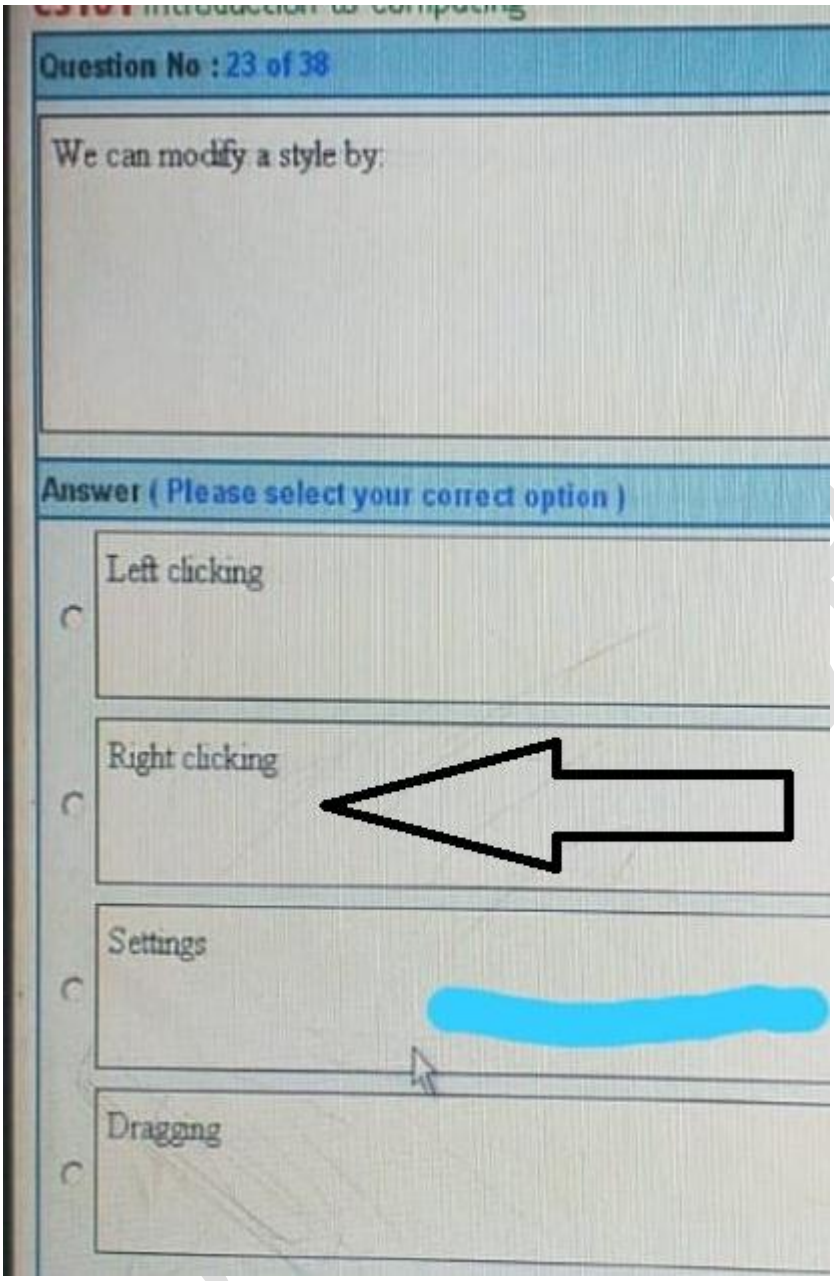
Question No : 15 of 38

The scheduler allocates:

Answer (Please select your correct option)

- Memory space
- Mass storage space
- Storage space
- Space in the process table


CS101 Introduction
Question No : 18 of 38
Rational unified process was created by:
Answer (Please select your correct option)
Intel
IBM
Microsoft
Adobe Inc

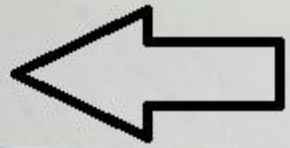

Question No : 23 of 38
We can modify a style by:
Answer (Please select your correct option)
Left clicking
Right clicking
Settings
Dragging

Question No : 26 of 38

In Ms word $A = \pi r^2$ Is an example of

Answer (Please select your correct option)

- Symbols
- Quick parts
- Cross reference
- Equations



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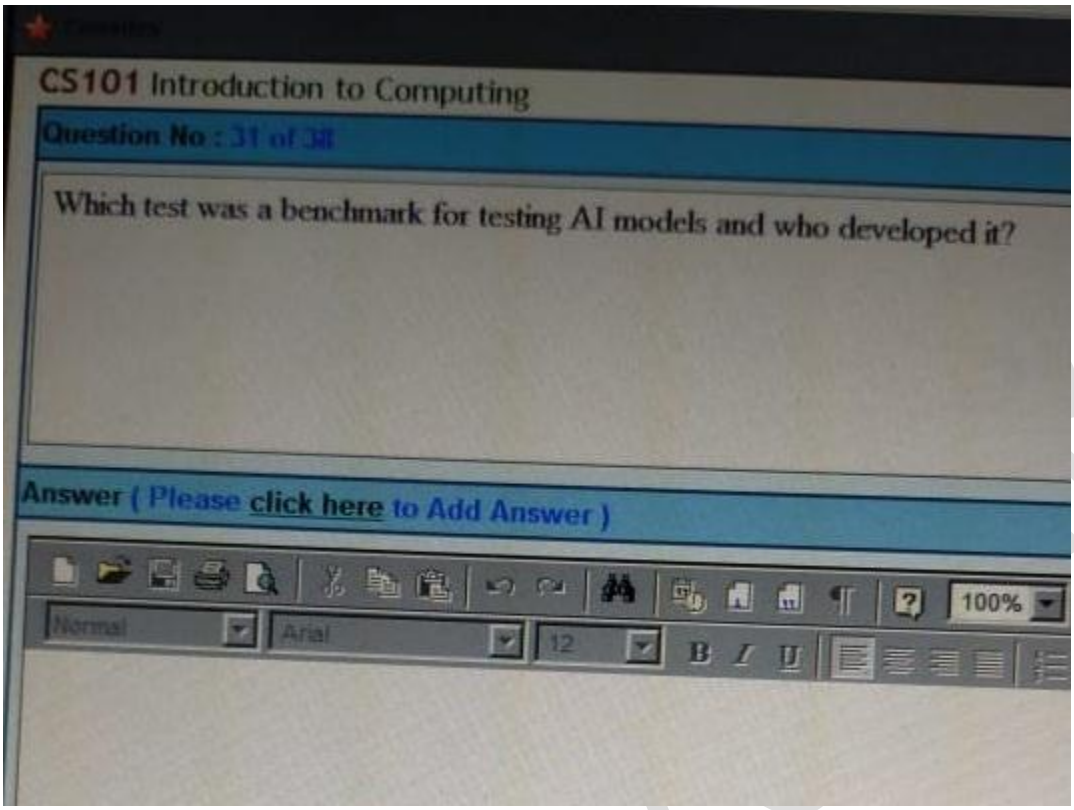
Question No : 20 of 38

Address of cell containing value "4" in spread sheet given below is:

	A	B
1	1	2
2	4	5
3	7	8

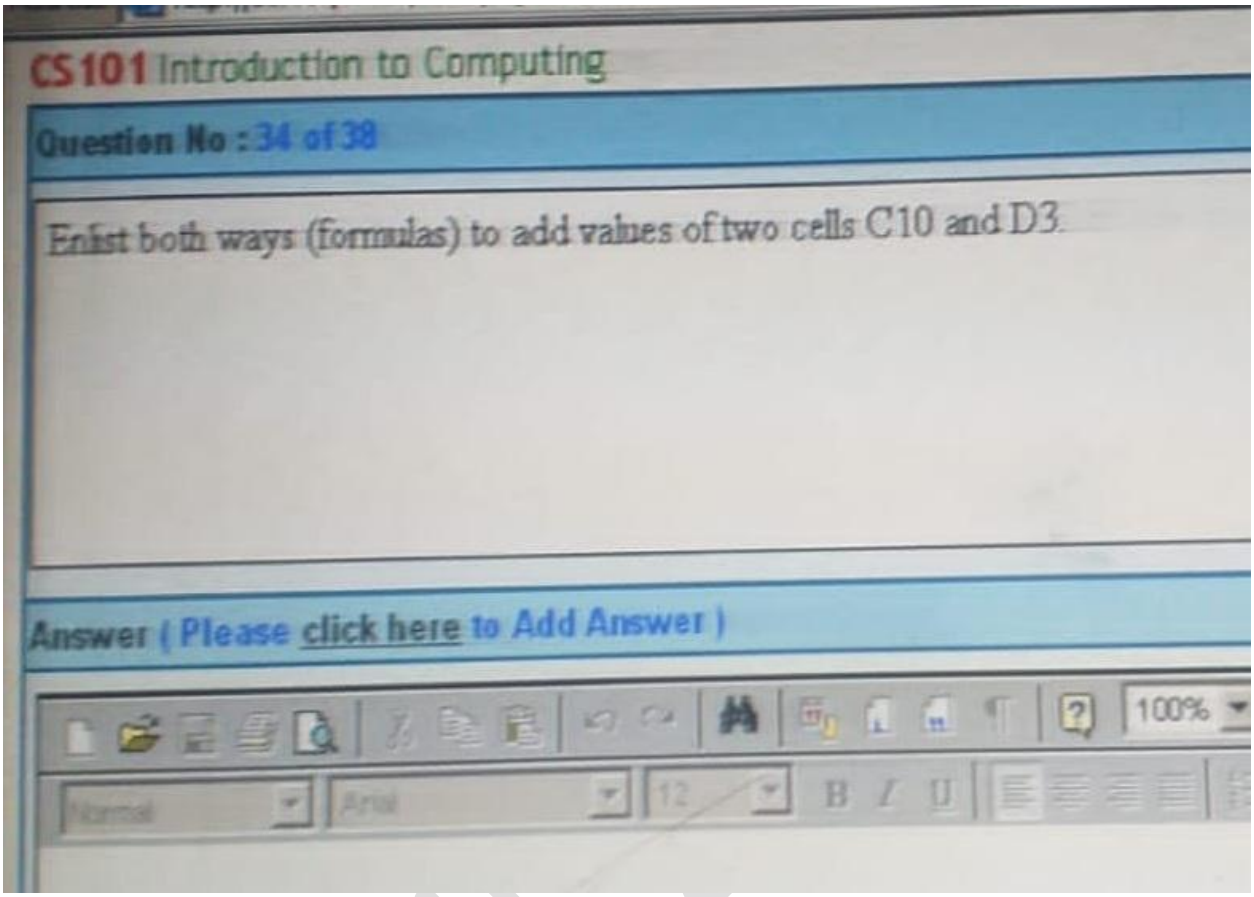
Answer (Please select your correct option)

- 3B
- A3
- A2
- A4



Turing test (proposed by Alan Turing in 1950) has served as a benchmark in measuring progress in the field of artificial intelligence.

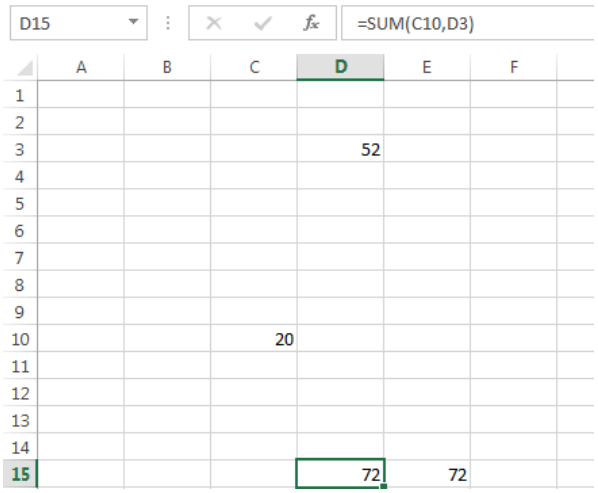
SOHAIL



Solution

We can add two cells by the following

1. Using SUM function
2. Write formula manually (=C10+D3)



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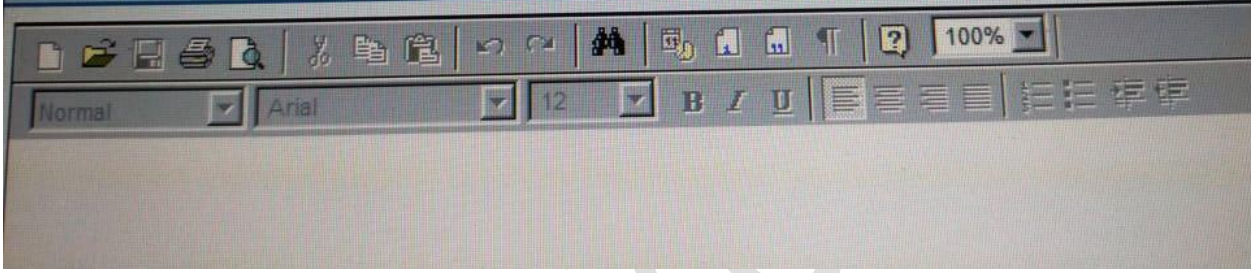
Question No : 32 of 38

What will be the output of the following Excel formulas? If A1=2, B1=9, C1= 15

1- =(A1^(B1-C1/3))*10

2- =(A1*(B1+C1/5))+10

Answer (Please click here to Add Answer)



C5 : =(A1^(B1-C1/3))*10

	A	B	C	D	E	F
1	2	9	15			
2						
3						
4						
5			160			
6						

C5 : =(A1*(B1+C1/5))+10

	A	B	C	D	E	F
1	2	9	15			
2						
3						
4						
5			34			
6						

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