Which of the following is used to create an output stream?

Select the correct option

- ofstream
- ifstream
- iostream
- fsstream

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Which of the following loops checks the test condition at the end of the loop?

Select the correct option

- While
- Do-While
- For
- Nested Loop

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When we access a multidimensional array, each array index is surrounded by _____.

Select the correct option

- Single quotes ' '
- Double quotes " "
- Brackets []
- Commas , ,

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In an n-dimensional array, we use _____ 'for loop(s)' to populate the array.

Select the correct option

- n
- n+1
- n-1
- n+2

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When No. of repetition is known then we use the _____ structure to perform repetition tasks.

Select the correct option

- While loop
- Do while loop
- For loop
- Switch

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When a = 26; then the expression a%= 5; will calculate the value of a as,

Select the correct option

- 1
- 0
- 3
- 5

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A file opened with _____ is used for input and cannot be used for output.

Select the correct option

- iostream
- ofstream
- ifstream
- none

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'multi [3] [3]' element can also be accessed by '_____'.

Select the correct option

- **(multi+3)+3
- *(*(multi+3)+3)
- *(multi+3)
- None of the given

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The parameter passed to isdigit() function is _____variable.

Select the correct option

- Character
- Boolean
- Double
- Float

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How many times the following do-while loop will execute?

```
int k = 10;

do
 {
   cout << "Statements" << endl;
```

Select the correct option

- 4
- 5
- 6
- 7

When the logical operator OR (||) combine two expressions exp1 and exp2 then the result will be false only,

Select the correct option

- ○ When both exp1 and exp2 are true
- ○ When both exp1 and exp2 are false
- ○ When exp1 is true and exp2 is false
- ○ When exp1 is false and exp2 is true

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In shifting operations if zero is inserted at the left most bit, the negative number will become a _____ number.

Select the correct option

- Positive
- Negative
- Absolute
- Smaller

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_____ function is used to find the number of characters in a string.

Select the correct option

- str()
- str_len()
- strlength()
- strlen()

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Which of the following is not a valid variable name in C++?

Select the correct option

- NameOfStudent
- nameOfStudent
- _studentName
- @studentName

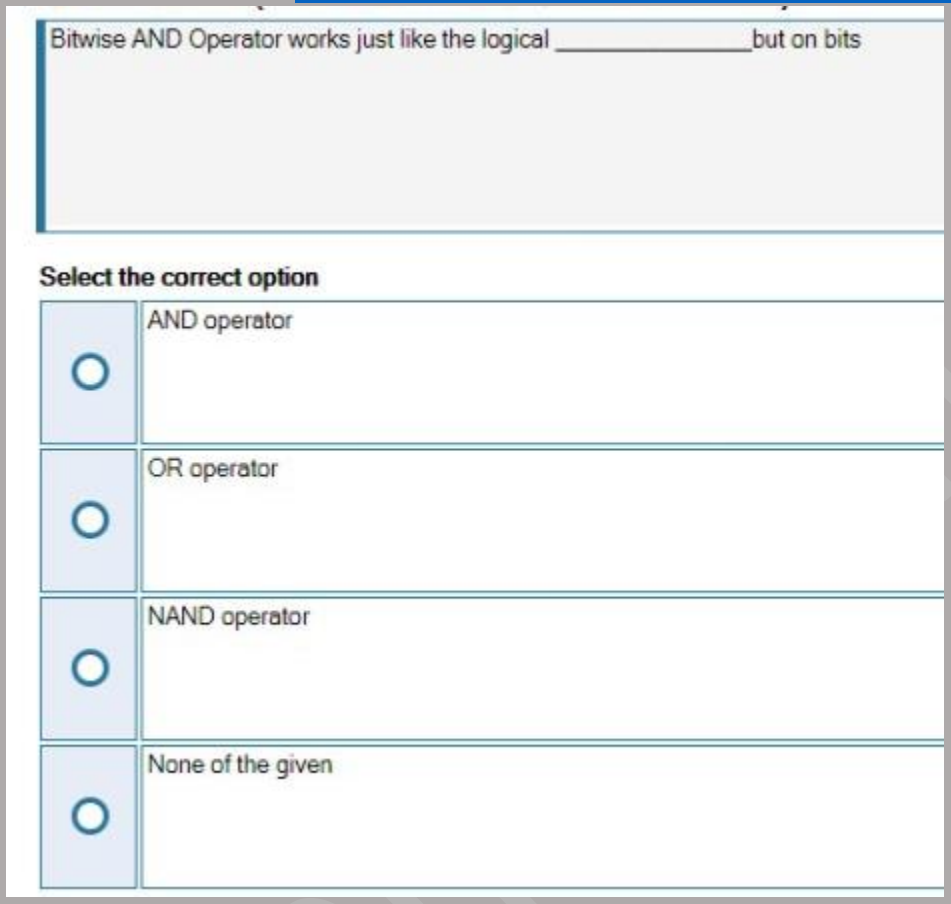
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< , <= , > , >= are called _____ operators.

Select the correct option

- Arithmetic
- Logical
- Relational
- Conational

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Bitwise AND Operator works just like the logical _____but on bits

Select the correct option

- AND operator
- OR operator
- NAND operator
- None of the given

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What is output of following code?

```
int data[10] = {10,20,30,40,50,60,70,80,90,100};
int *xptr = &data[4];
int *yptr = &data[6];
cout<<xptr + yptr++;
```

Select the correct option

- ○ 110
- ○ 120
- ○ 130
- ○ Syntax error

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A hierarchy of classes which are used to deal with console and disk files are called _____.

Select the correct option

- Stream classes
- Simple classes
- Binary classes
- IO classes

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C is widely known as development language of _____ operating system.

Select the correct option

- Linux
- Unix
- Windows
- Mac OS

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What will be the output of the following while loop?

```
int counter = 0 ;
while(counter < 15)
cout << counter << " ";
counter++;
```

Select the correct option

- 1 2 3 4
- 1 2 3 4 5
- Compile time error
- Infinite loop

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What logical error exists in the following arithmetic expression?
X = 50 / (2 % 2) + 9

Select the correct option

- ( ) parenthesis are not allowed in expressions
- Division by zero will occur in this expression
- Order of the expression is not according to rules
- We can not use % operator in expressions

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_____ allow us to have a memory location and use it as int or char interchangeably

Select the correct option

- structures
- union
- construct
- None of the given

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How many times the following loop will execute?

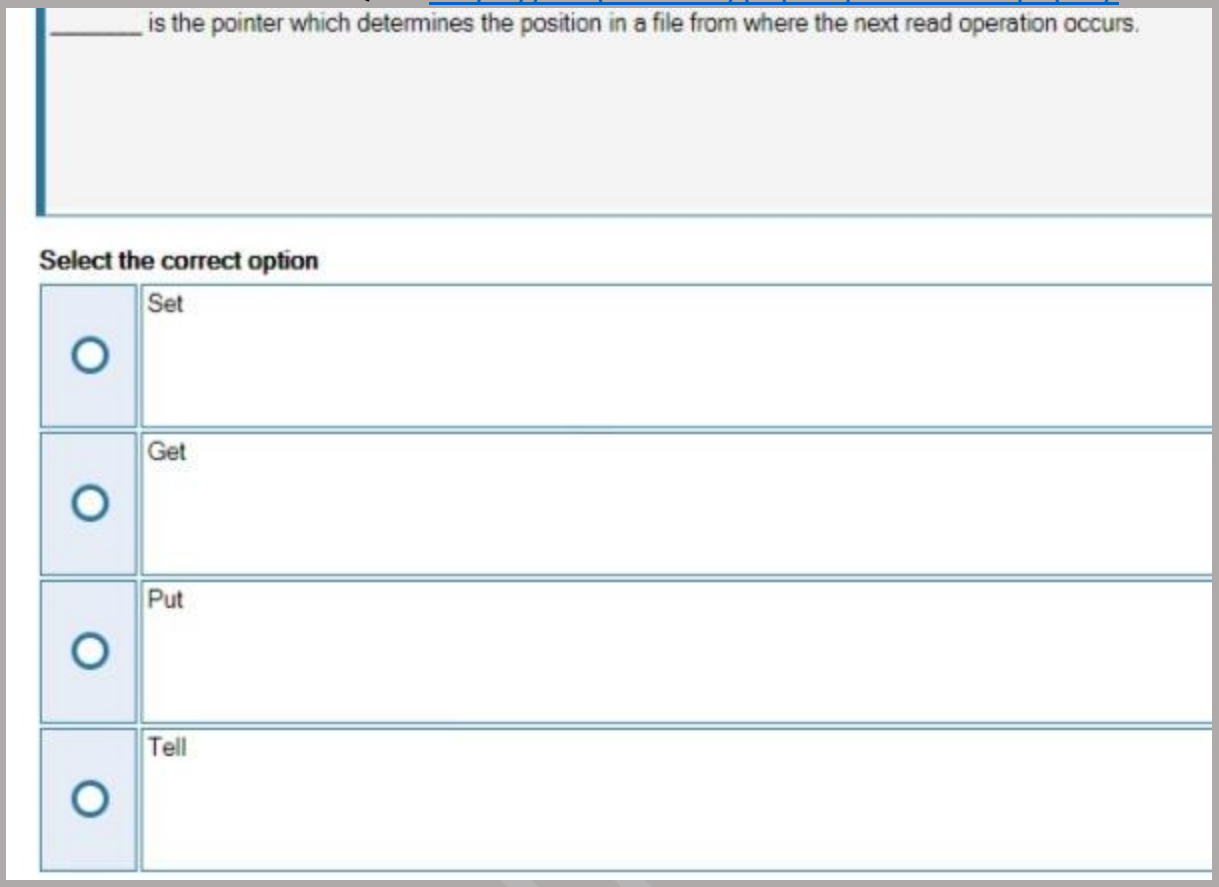
```
int j = 3;
while(j > 0)
{
   cout << "Statements" << endl;
    j -= 2;
   }
```

Select the correct option

- 0
- 1
- 2
- 3

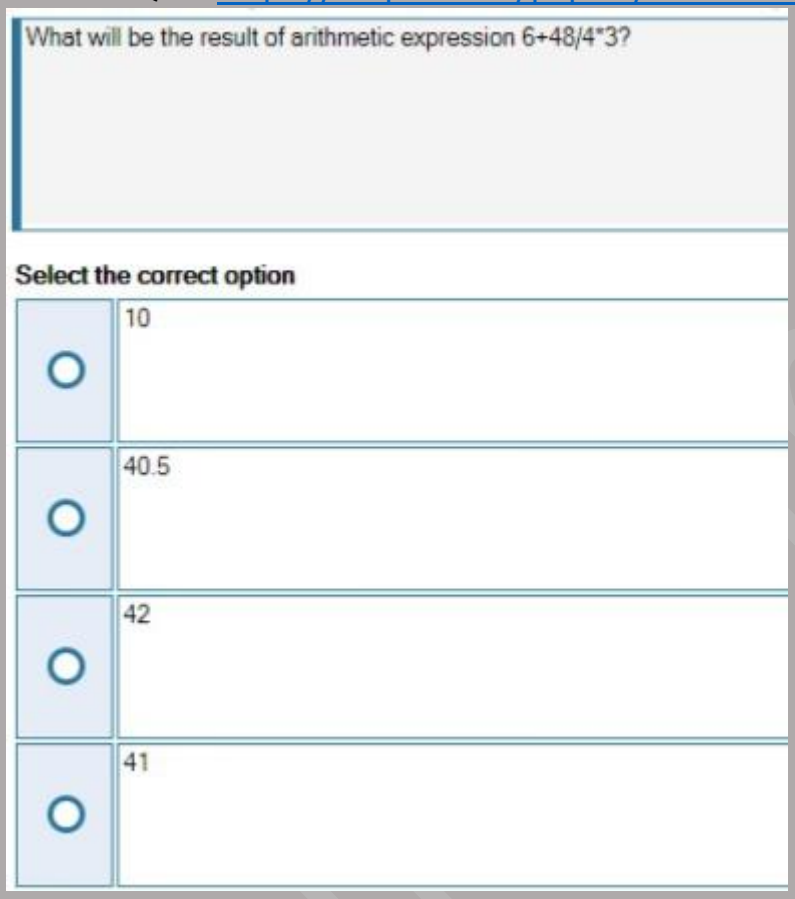
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We comment code as it makes program _____

Select the correct option

- Heavy i.e. more space is needed for executable.
- Difficult to compile.
- All of these.
- Easy to understand.

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What is the output of the following code if the 2nd case true

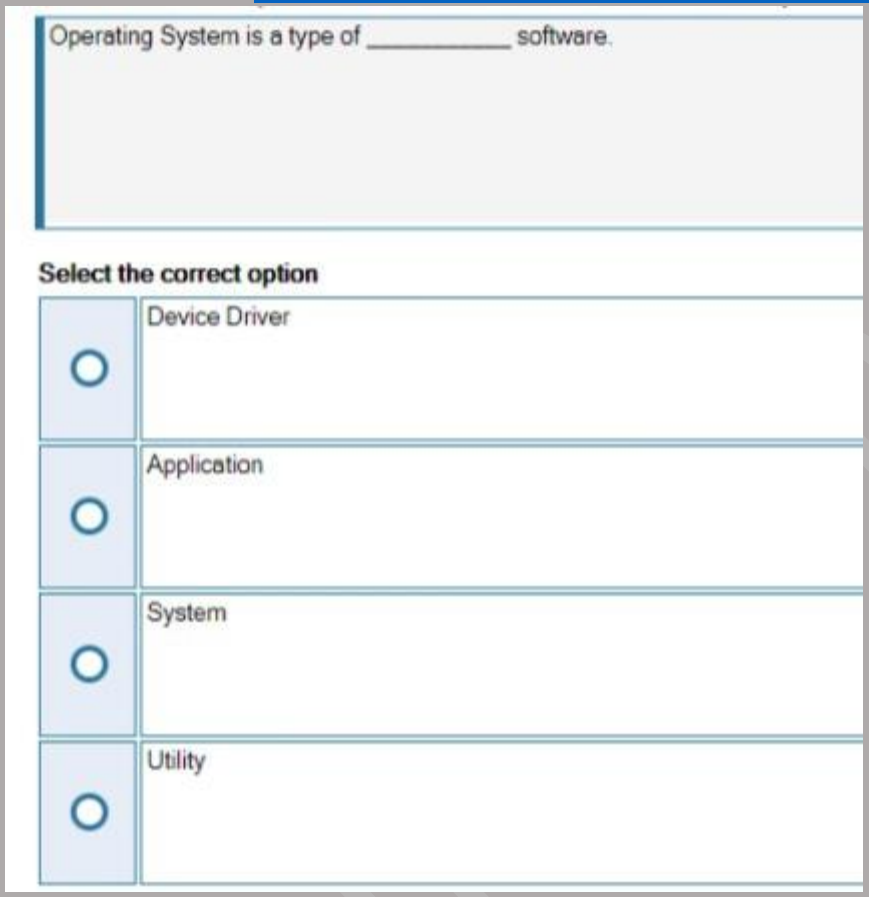
```
switch (var)
{

case 'a':
```

Select the correct option

- banana
- banana any fruit
- banana mango any fruit
- none of the above

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The string in the array is terminated by a _____

Select the correct option

- zero
- nil
- null
- one

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Find the syntax error in the following piece of code?

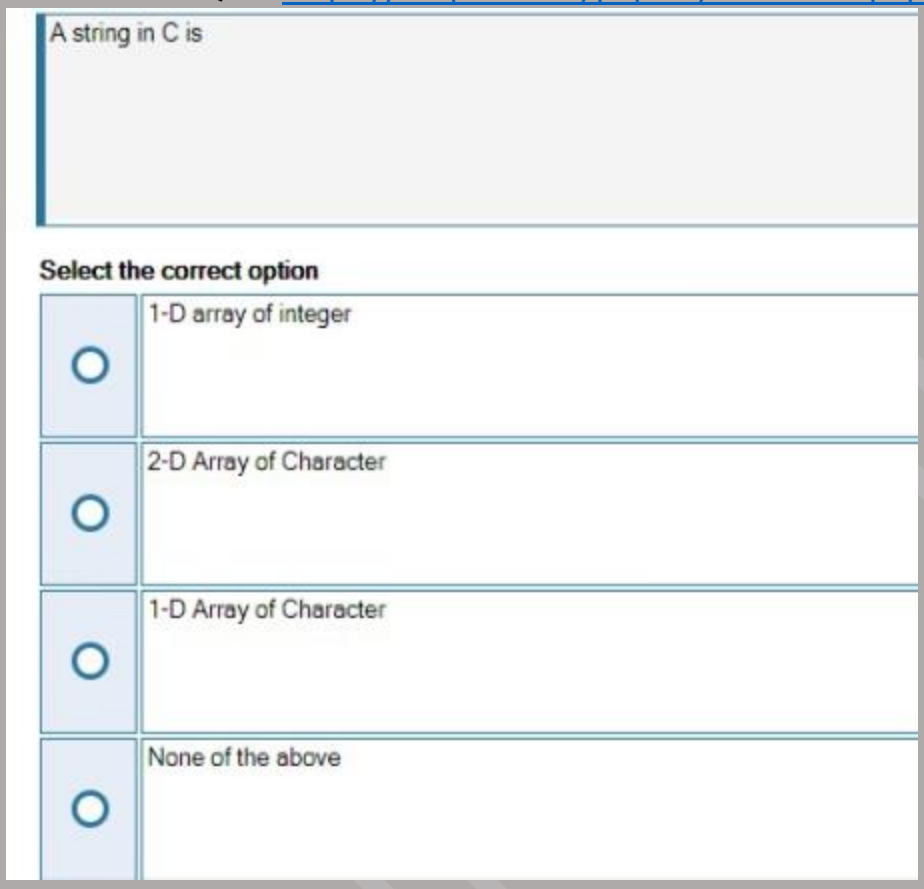
```
if ( x > y);
  cout<<" x is greater than y  ";

else
  cout<<"y is greater than x";
```

Select the correct option

- Braces not given for if and else blocks
- Condition in the if statement is wrong
- Semicolon should not be after the if statement
- No error in the code

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A string in C is

Select the correct option

- 1-D array of integer
- 2-D Array of Character
- 1-D Array of Character
- None of the above

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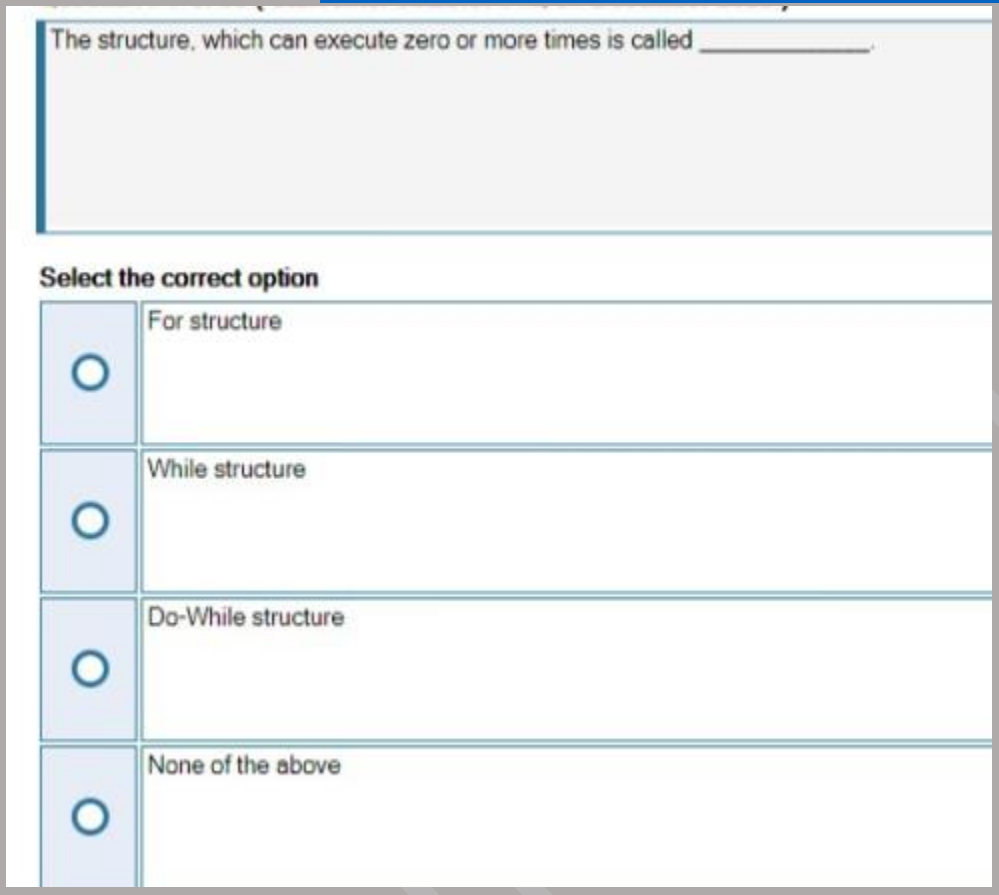
If x is declare as an integer, what will be result of the given expression?
x = 3 * 5 % (2 + 2) / 2

Select the correct option

- 4
- 3.5
- 1
- 3.75

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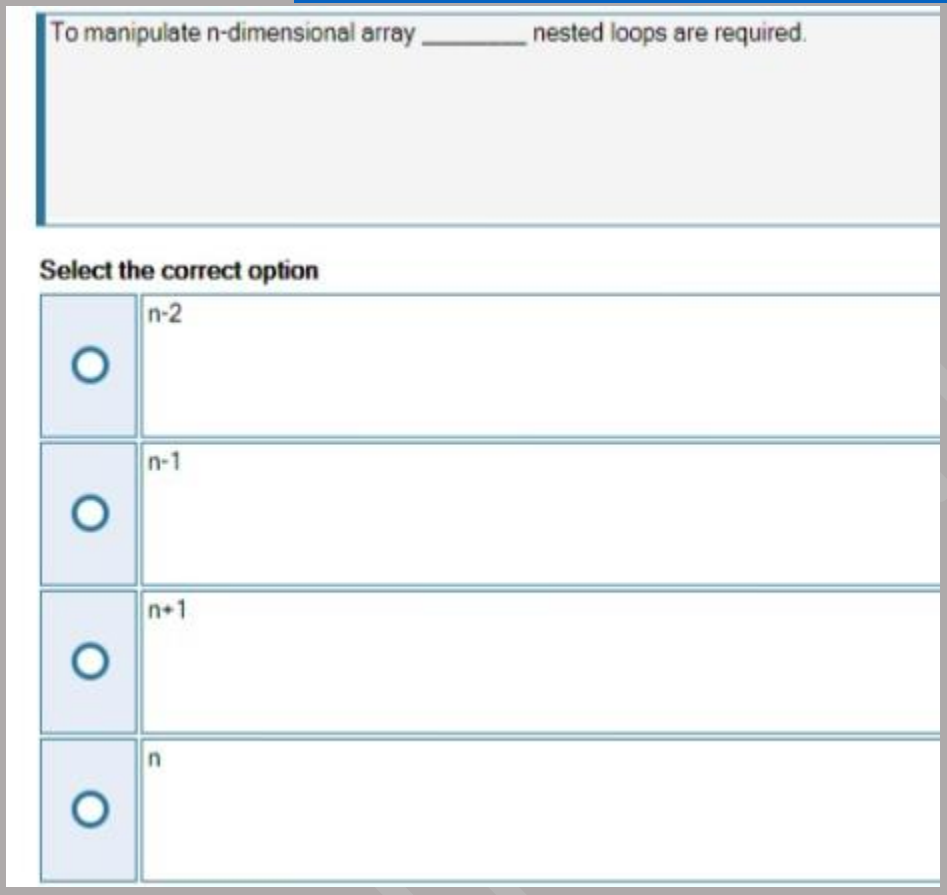
_____ function is used to find the number of characters in a string.

Select the correct option

- str()
- str_len()
- strlength()
- strlen()

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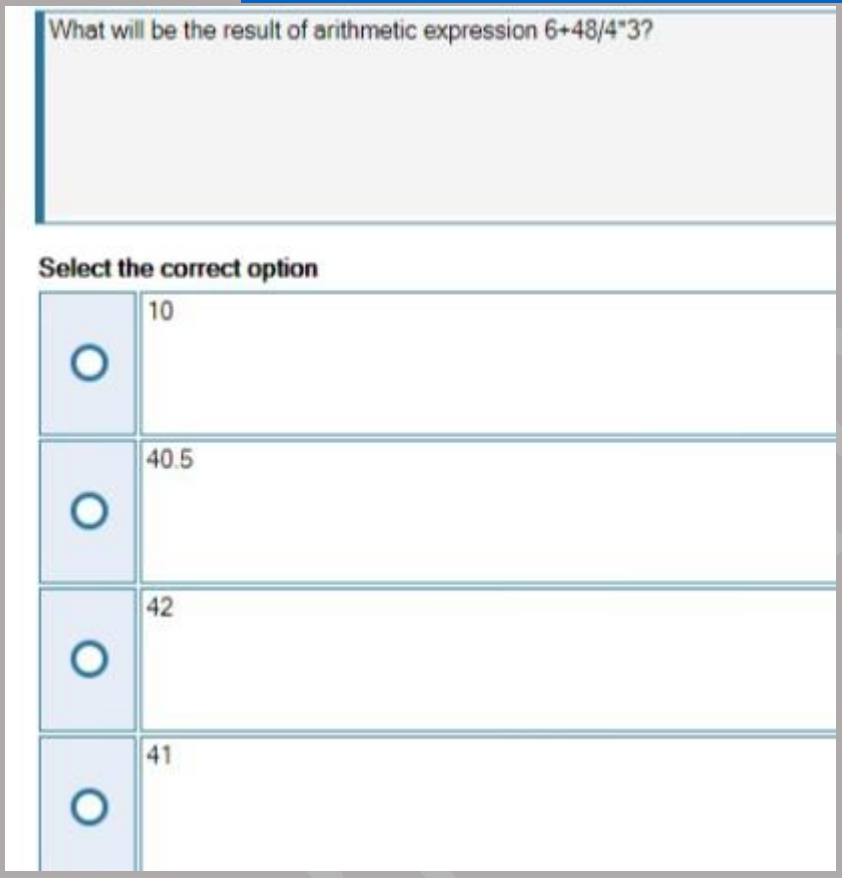
Suppose that an integer type pointer contains a memory address 0x22f220. What will be the new memory address if we increment this pointer by one?

elect the correct option

- 0x22f221
- 0x22f222
- 0x22f223
- 0x22f224

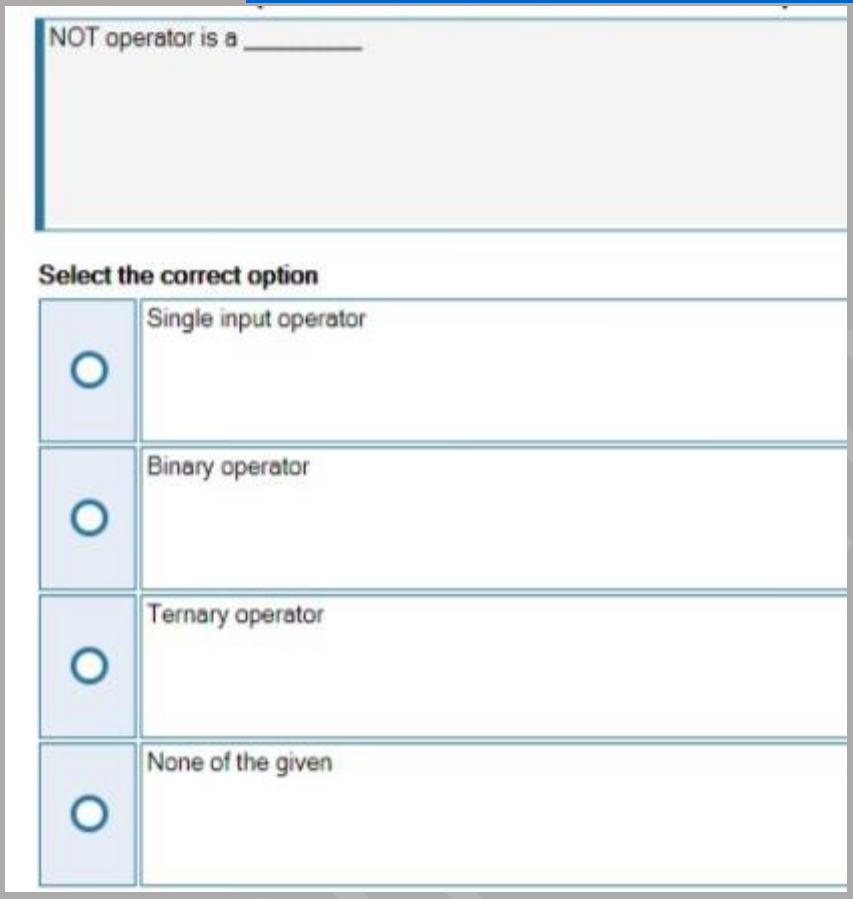
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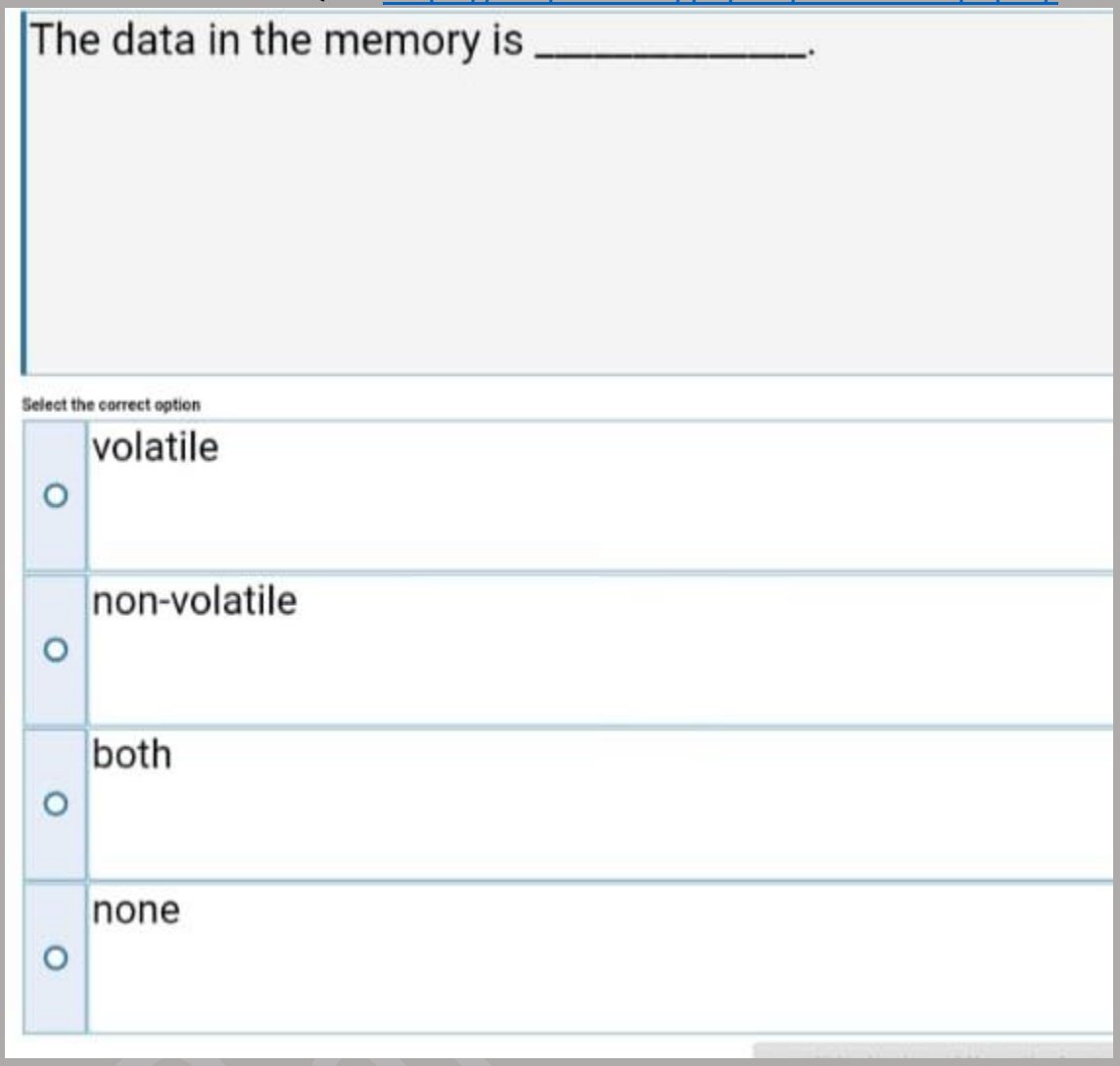

NOT operator is a _____

Select the correct option

- Single input operator
- Binary operator
- Ternary operator
- None of the given

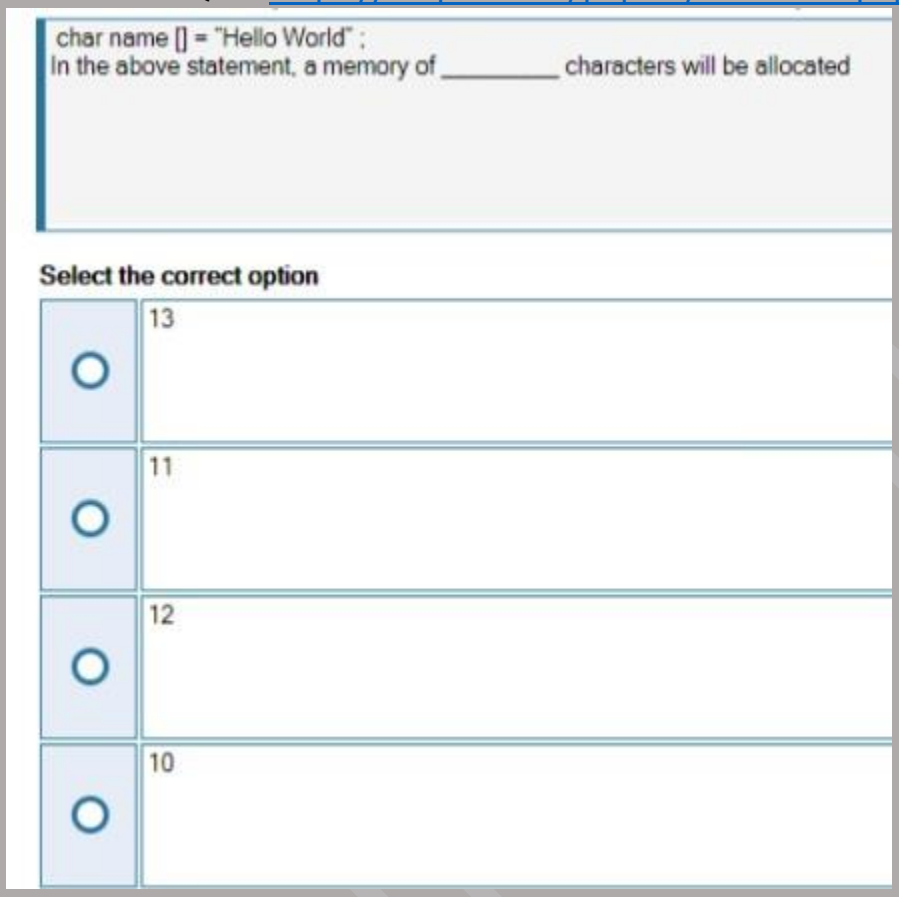
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char name [] = "Hello World" ;
In the above statement, a memory of _____ characters will be allocated

Select the correct option

- 13
- 11
- 12
- 10

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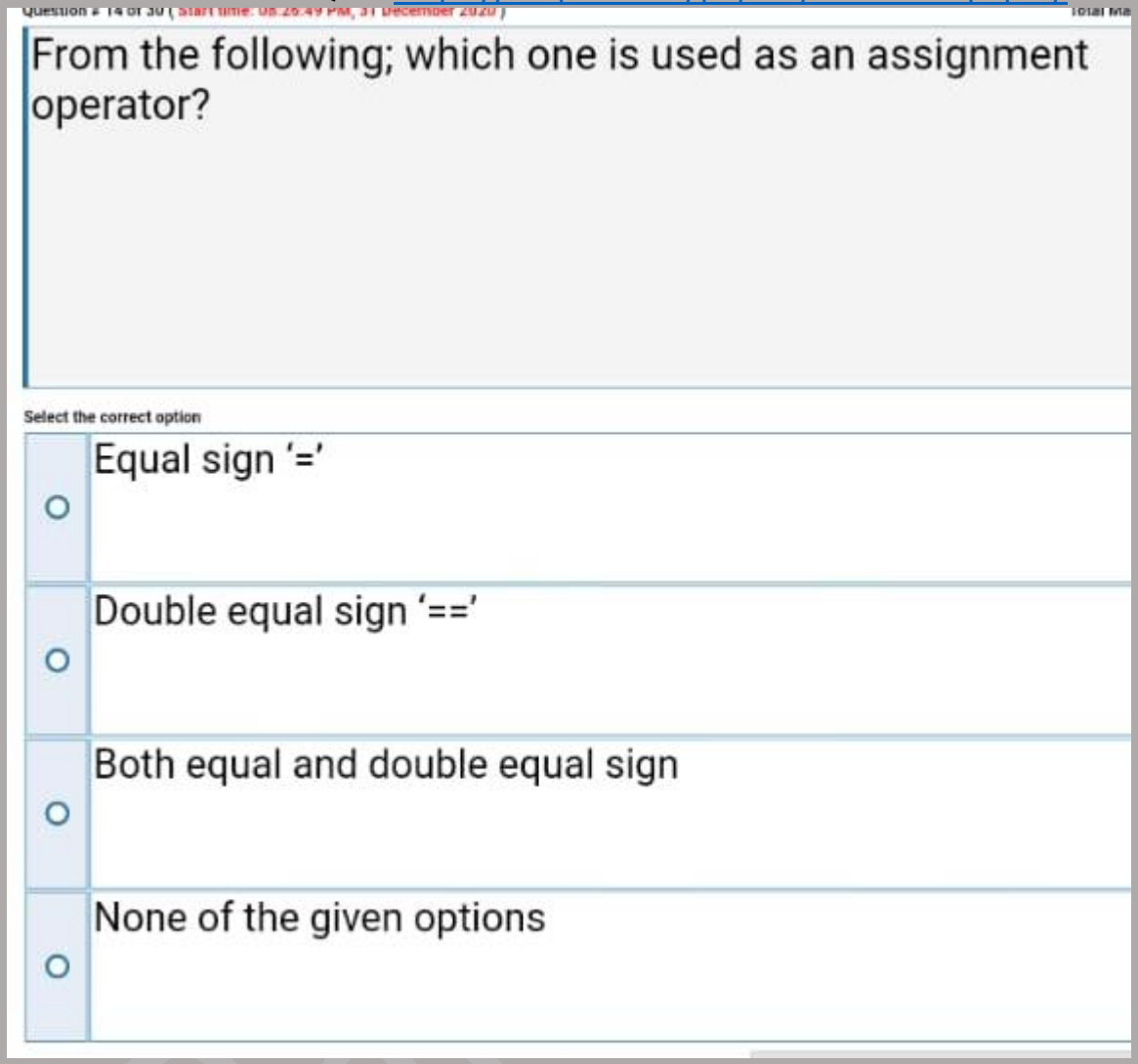
From the following; which one is used as an assignment operator?

Select the correct option

- Equal sign '='
- Double equal sign '=='
- Both equal and double equal sign
- None of the given options

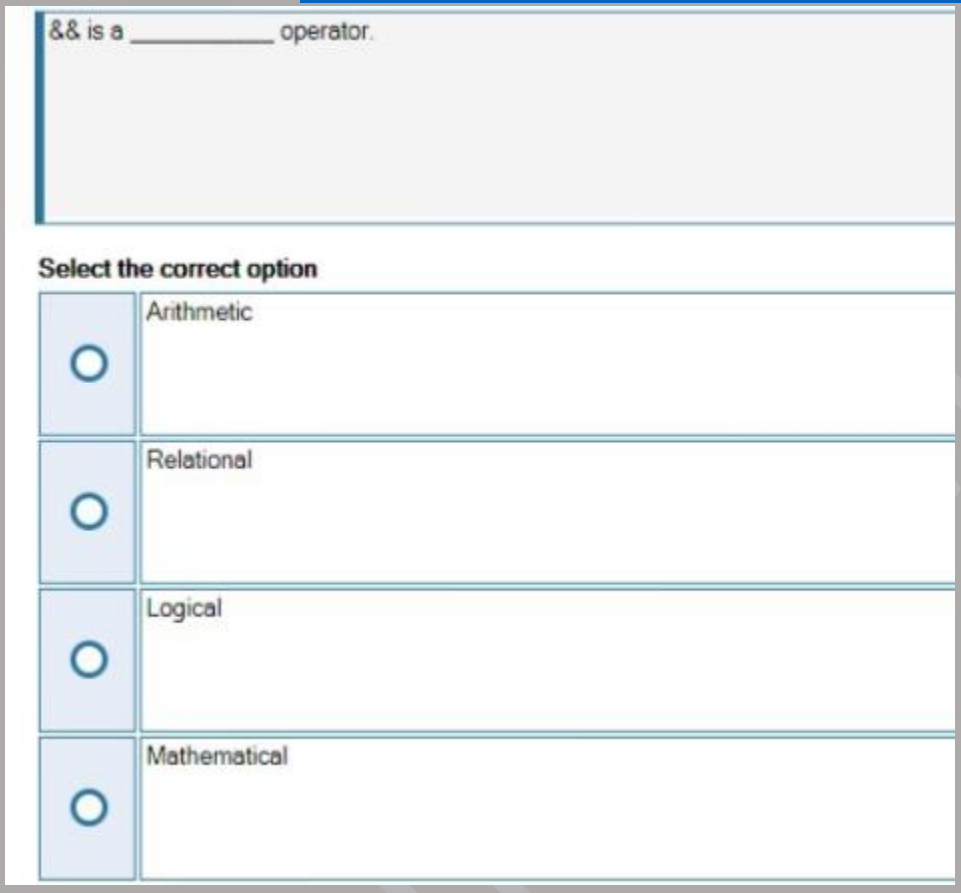
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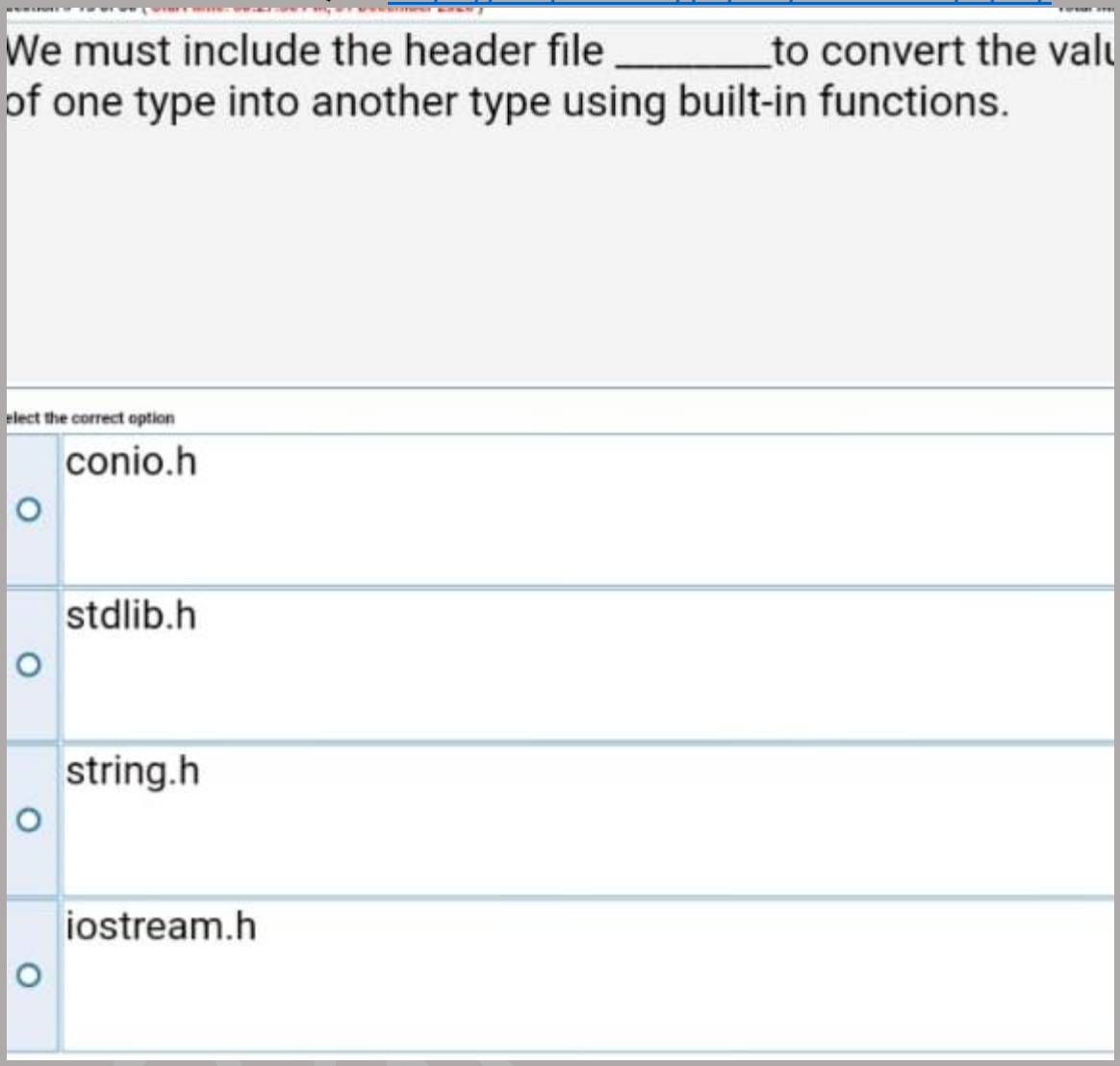
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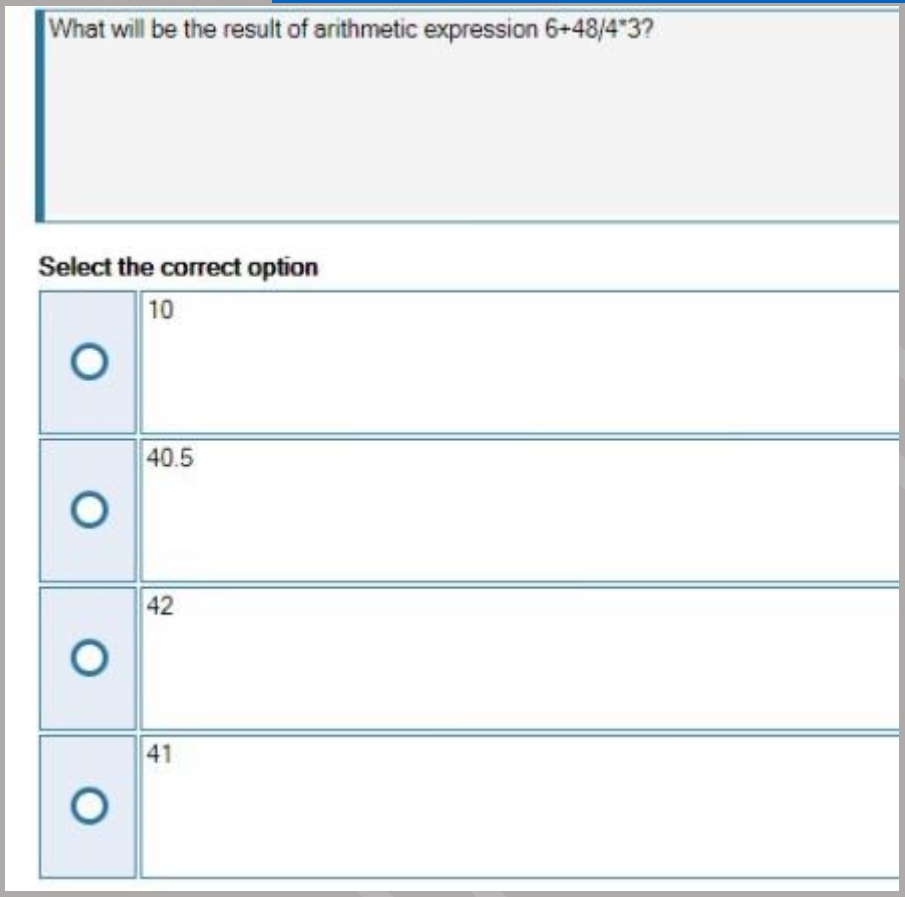
Which of the following is the correct way to initialized two dimensional array along with declaration?

Select the correct option

- int x[2][3] = {{22, 23, 10}, {15, 25, 13}};
- int x[2][3] {22, 23, 10}, {15, 25, 13};
- int [2][3]x = {};
- int x[2][3] = {{0}, {0}};

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What will be the result of arithmetic expression 6+48/4*3?

Select the correct option

- 10
- 40.5
- 42
- 41

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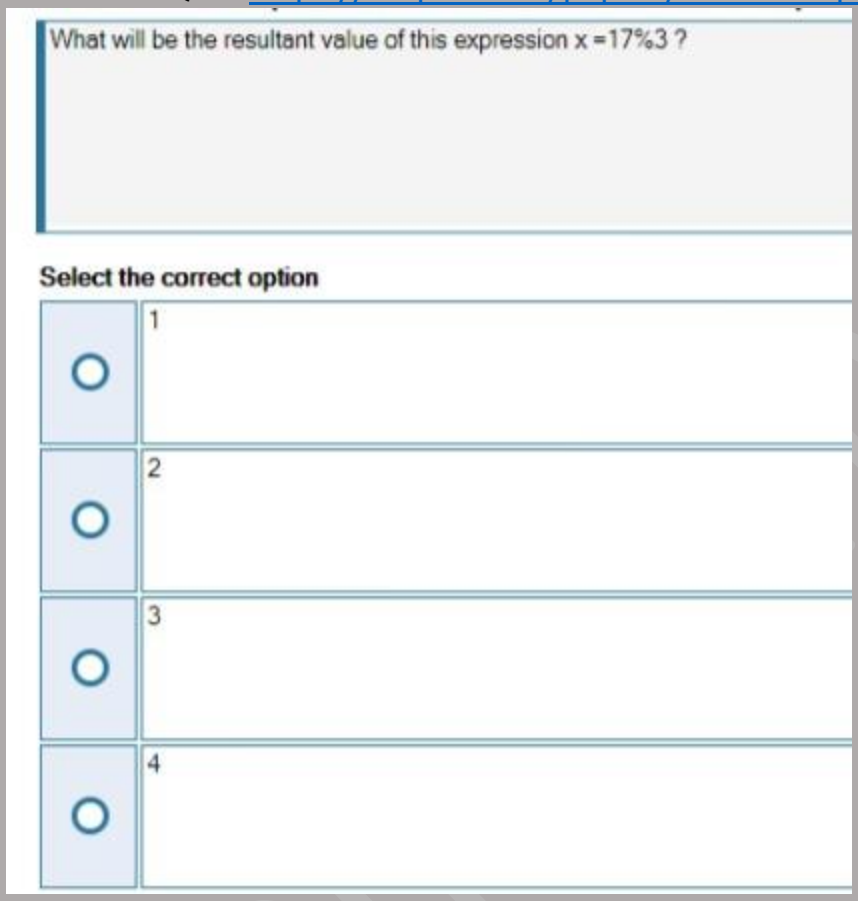
Default mechanism of calling a function by passing it arra is call by _____ and in case of passing variable is call by _____.

Select the correct option

- Reference, Reference
- Reference, value
- Value, Reference
- Value, Value

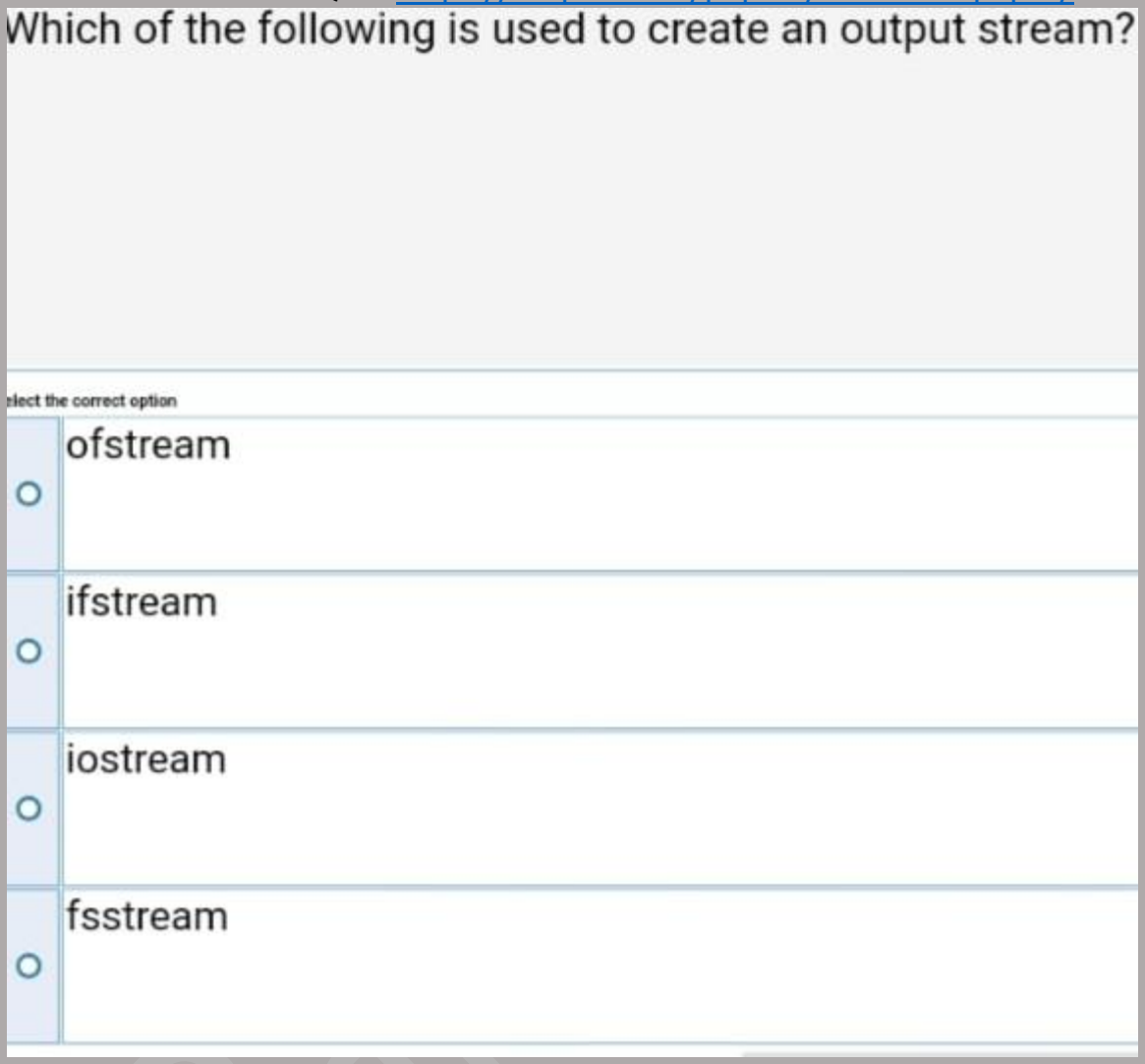
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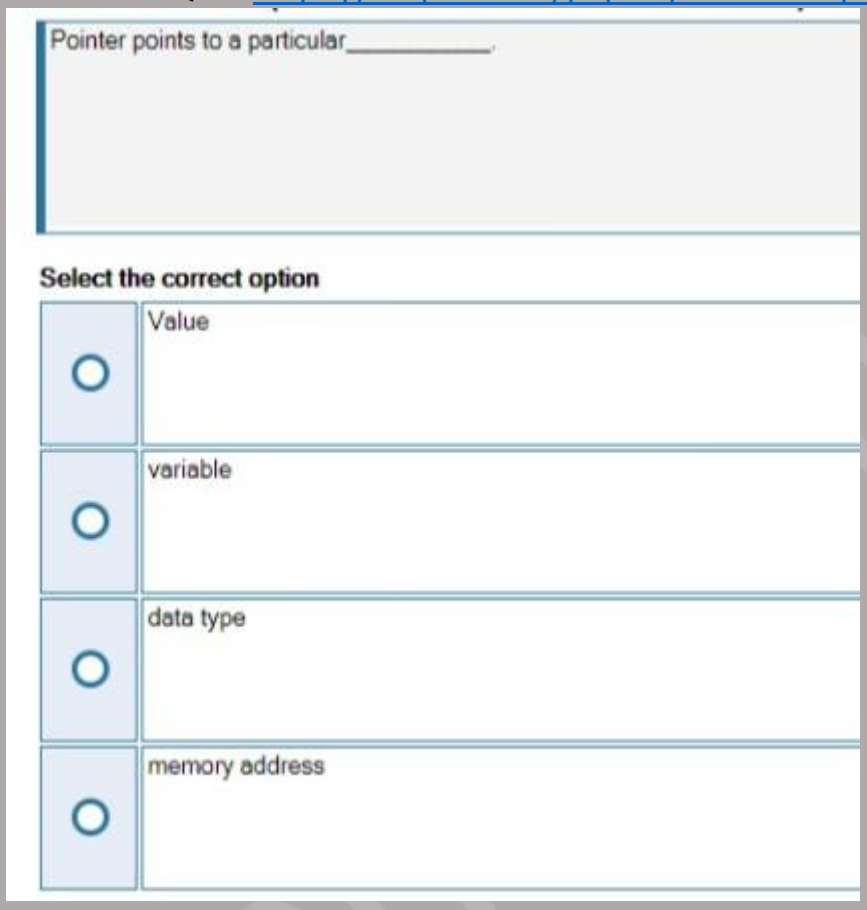
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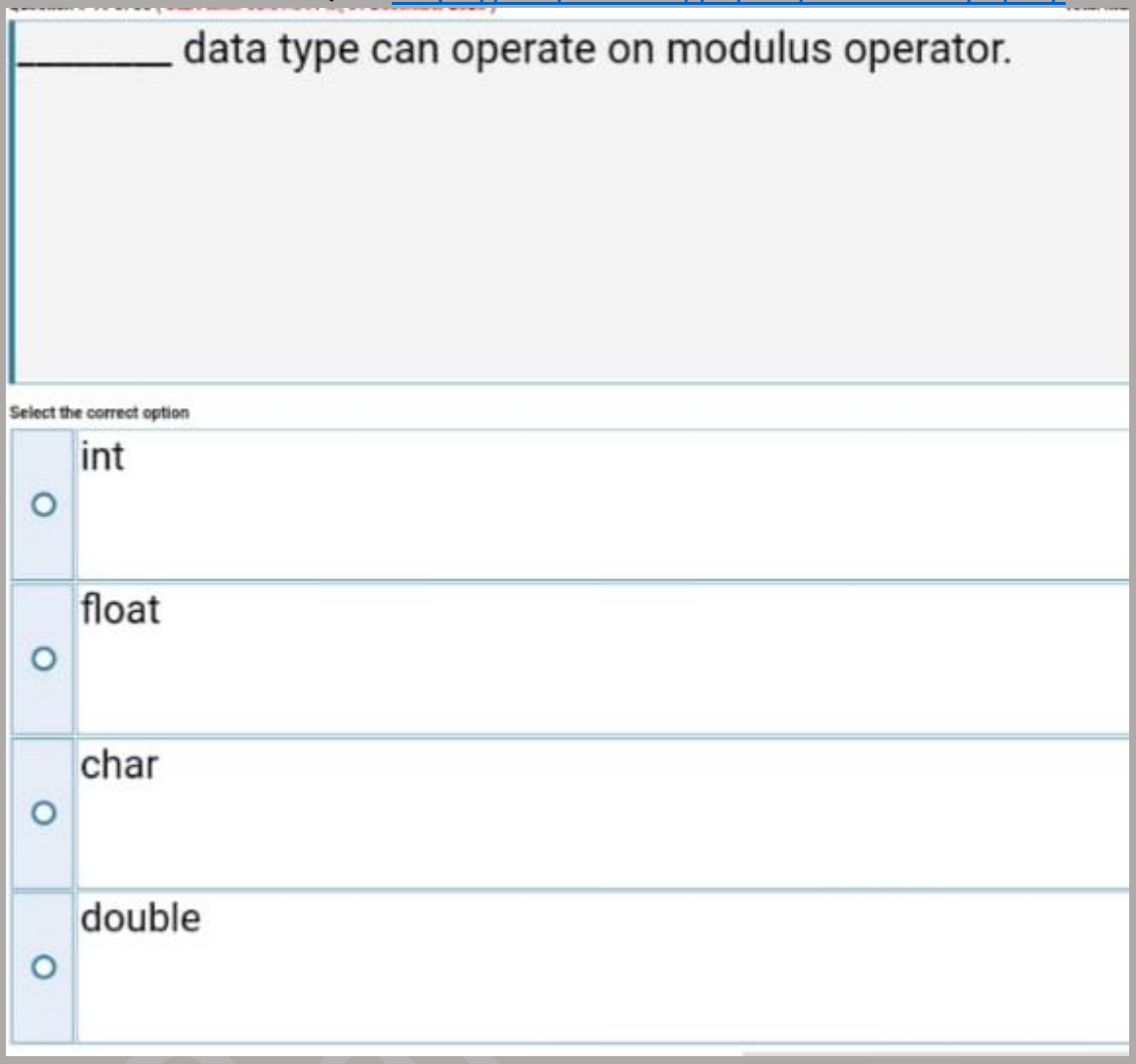
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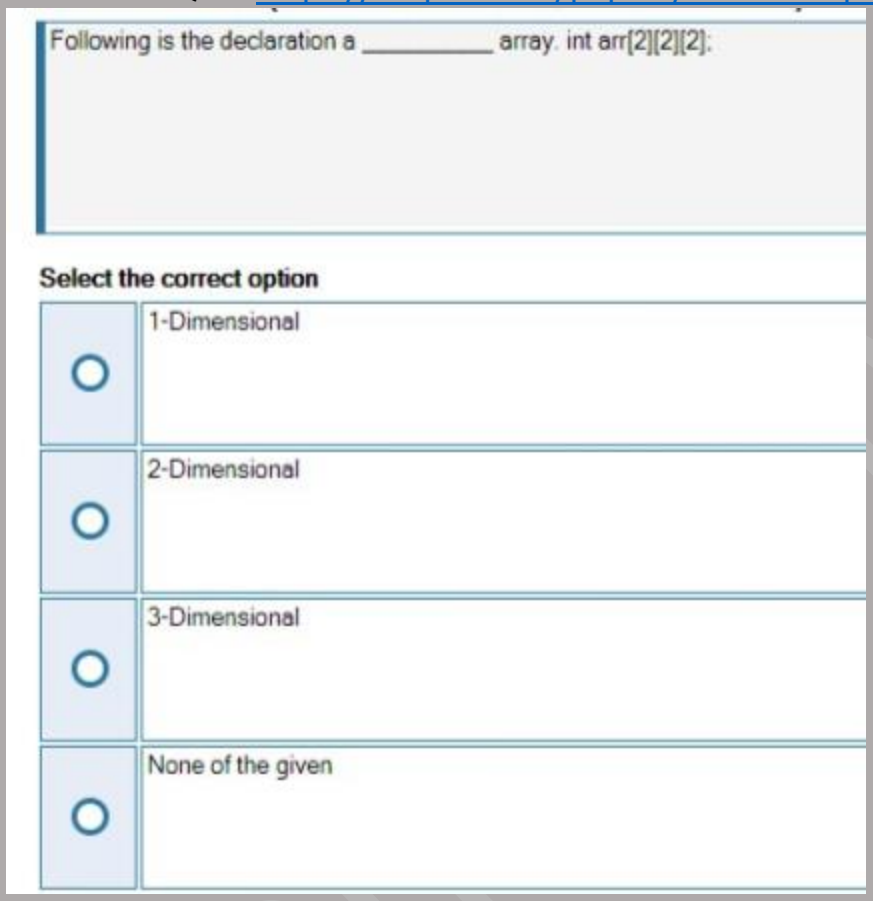


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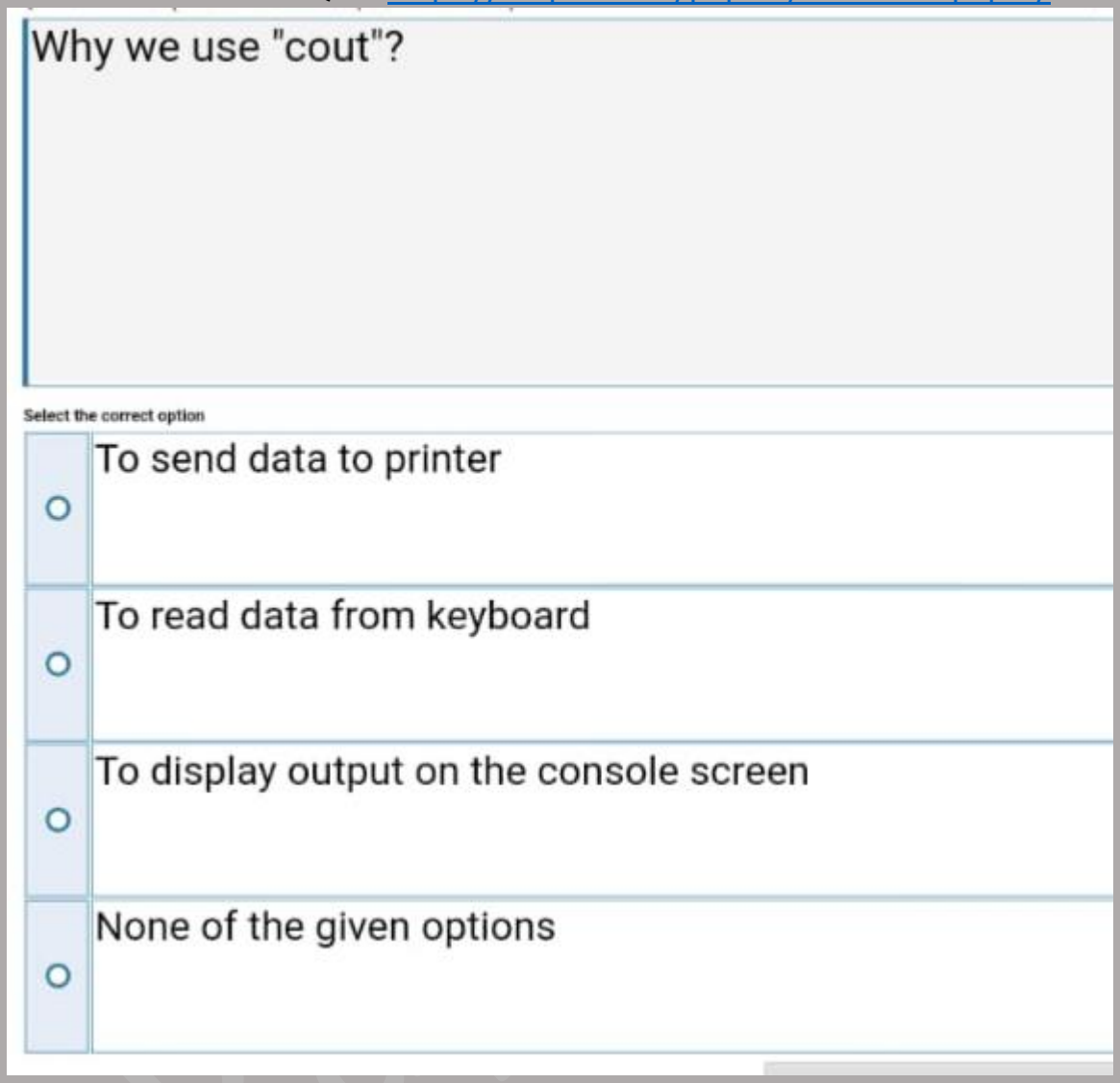


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Following is the declaration a _____ array. int arr[2][2][2];
Select the correct option
1-Dimensional
2-Dimensional
3-Dimensional
None of the given

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What is the output of the following code if the 3rd case is true

```
switch (var)
{

case 'a':
cout<<"apple"<<endl;
```

Select the correct option

- mango
- mango
  any fruit
- apple
- none of the above

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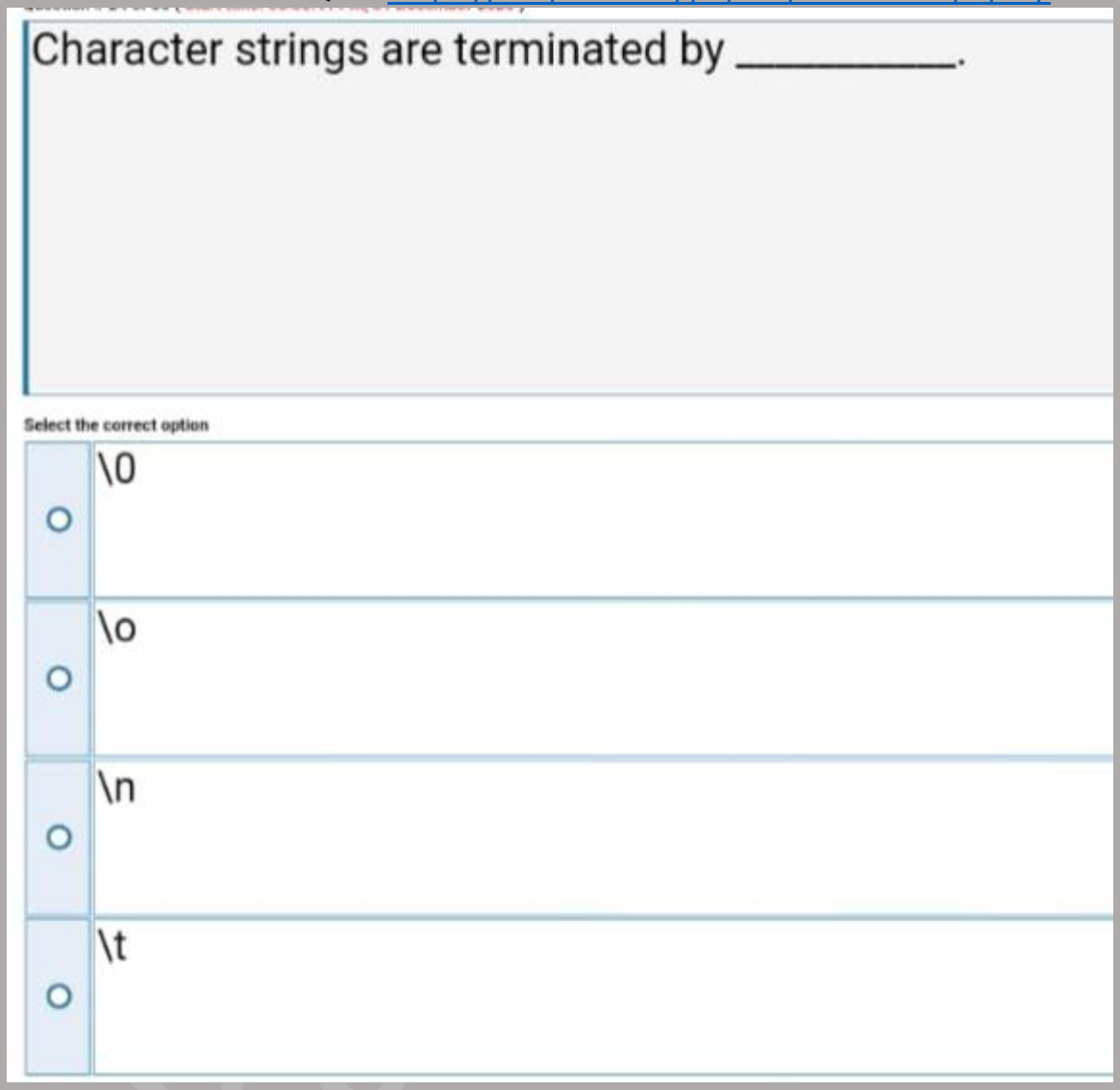
Using a segment of source code again by adding new functionalities with slight or no modification is termed as _____.

Select the correct option

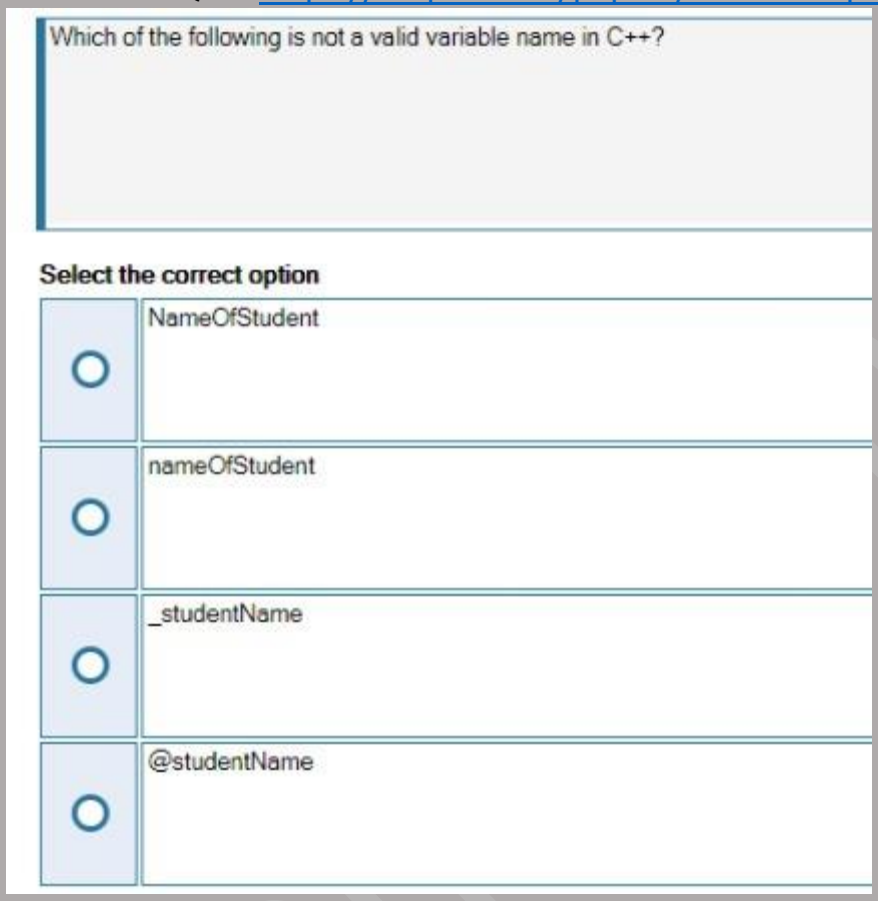
- Code efficiency
- Code modification
- Code Reusability
- Code Generation

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Which of the following is not a valid variable name in C++?
Select the correct option
NameOfStudent
nameOfStudent
_studentName
@studentName

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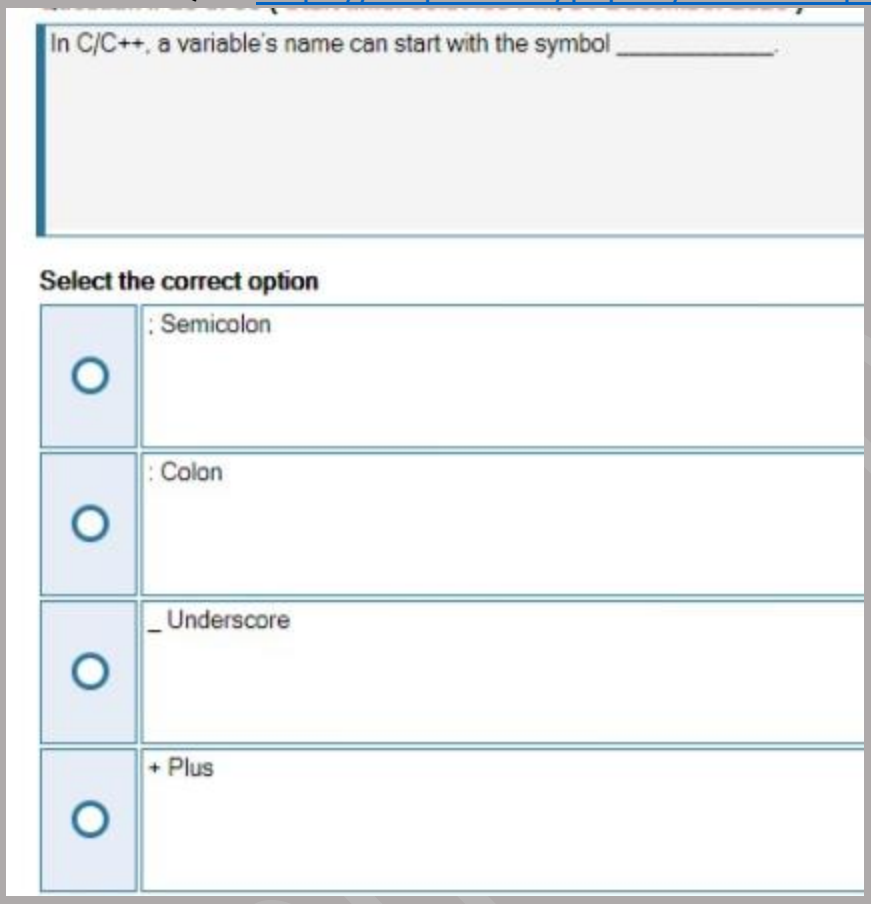
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When the if statement consists of more than one statement then enclosing these statement in braces is _____.

Select the correct option

- Compulsory
- Optional
- Not required
- Relevant

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In C/C++, a variable's name can start with the symbol _____.

Select the correct option

- : Semicolon
- : Colon
- _ Underscore
- + Plus

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Structures are syntactically defined with the word_____.

Select the correct option

- struc
- struct
- structure
- None of the given

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Given a two dimensional array of integers, what would be the correct way of assigning the value 6 to the element at third row and fourth column?

Select the correct option

- array[3][4] = 6 ;
- array[2][4] = 6 ;
- array[4][3] = 6 ;
- array[2][3] = 6 ;

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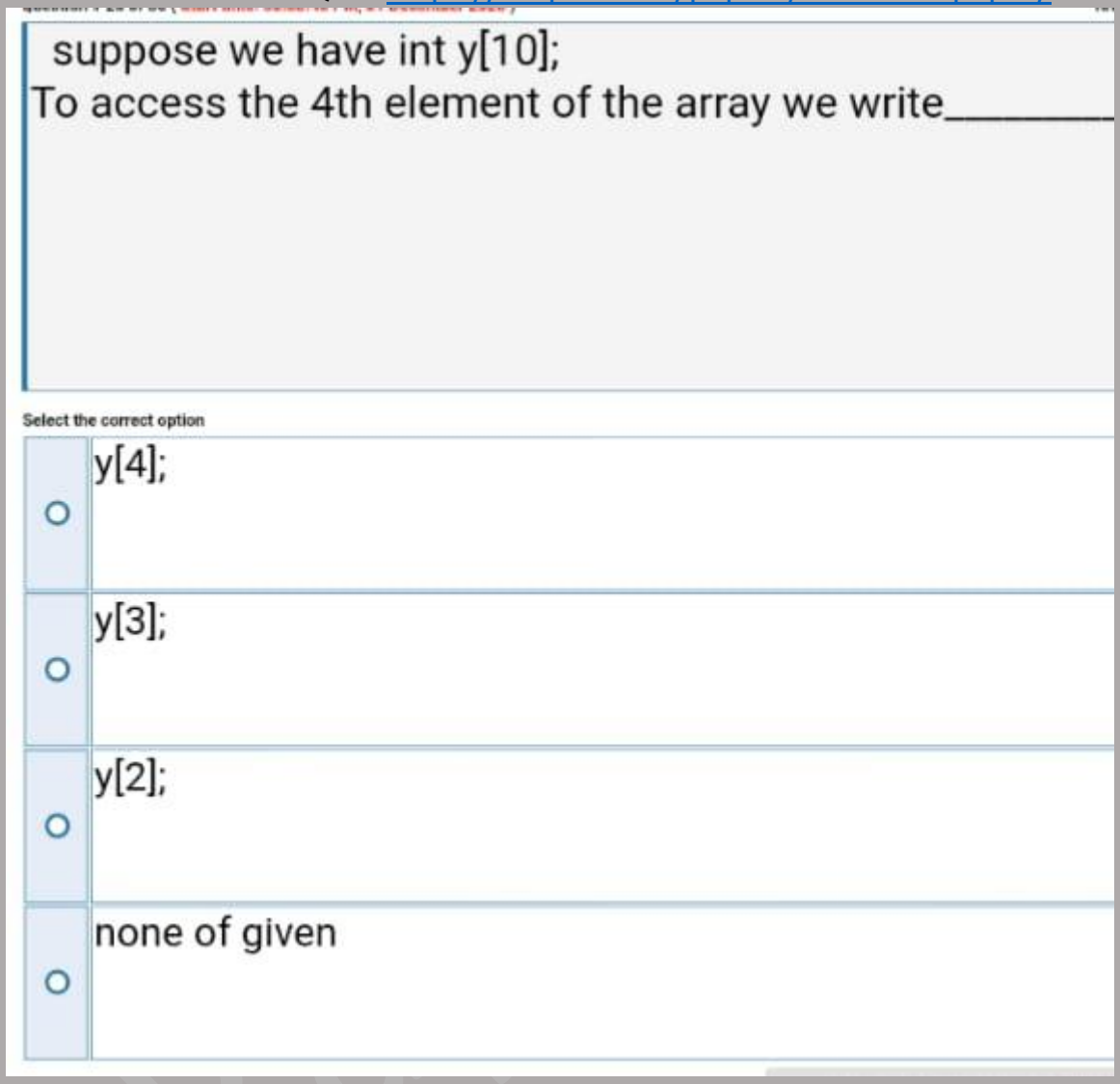
When No. of repetition is known then we use the _____ structure to perform repetition tasks.

Select the correct option

- While loop
- Do while loop
- For loop
- Switch

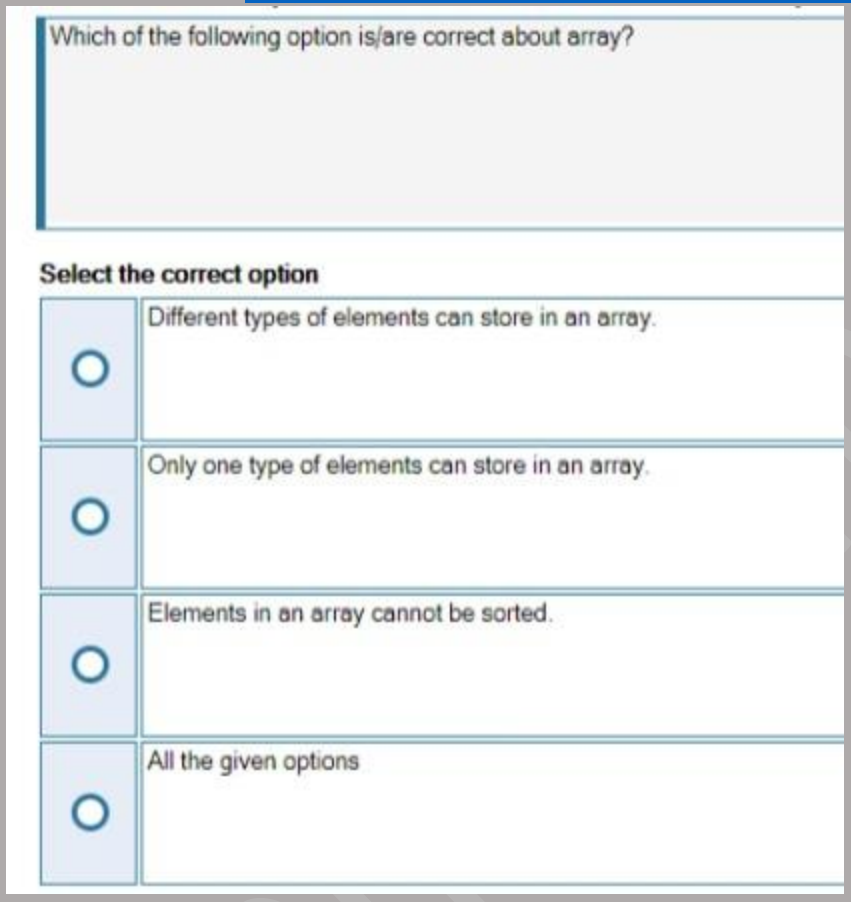
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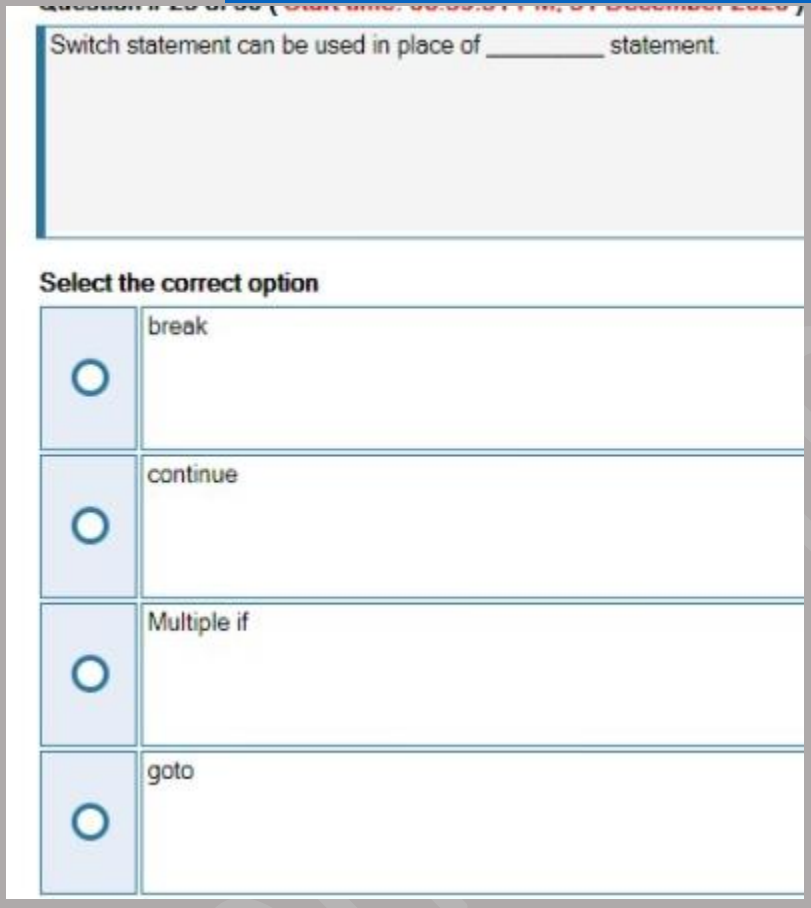


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Switch statement can be used in place of _____ statement.

Select the correct option

- break
- continue
- Multiple if
- goto

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For breaking complex problems into smaller pieces we use _____.

Select the correct option

- if/else
- Loops
- Functions
- Break statement

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Each array declaration must provide the information abo
all these things except _____.

Select the correct option

- Name of the array
- Type of data stored in the array
- The location of the first element to be stored
- Number of elements of the array

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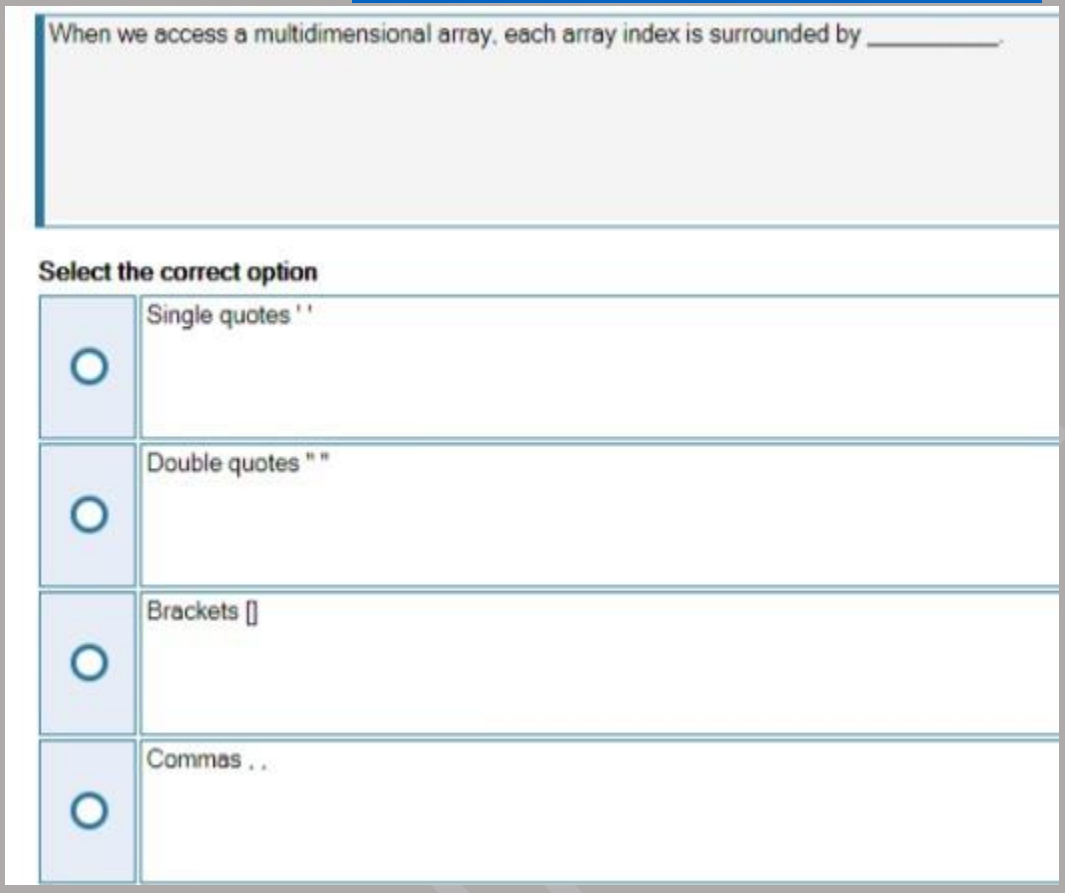
The structure, in which the body of the loop executed at-least once is called _____.

Select the correct option

- For structure
- While structure
- Do-while structure
- None of the above

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What will be the value of 'a' and 'b' after executing the following statements?

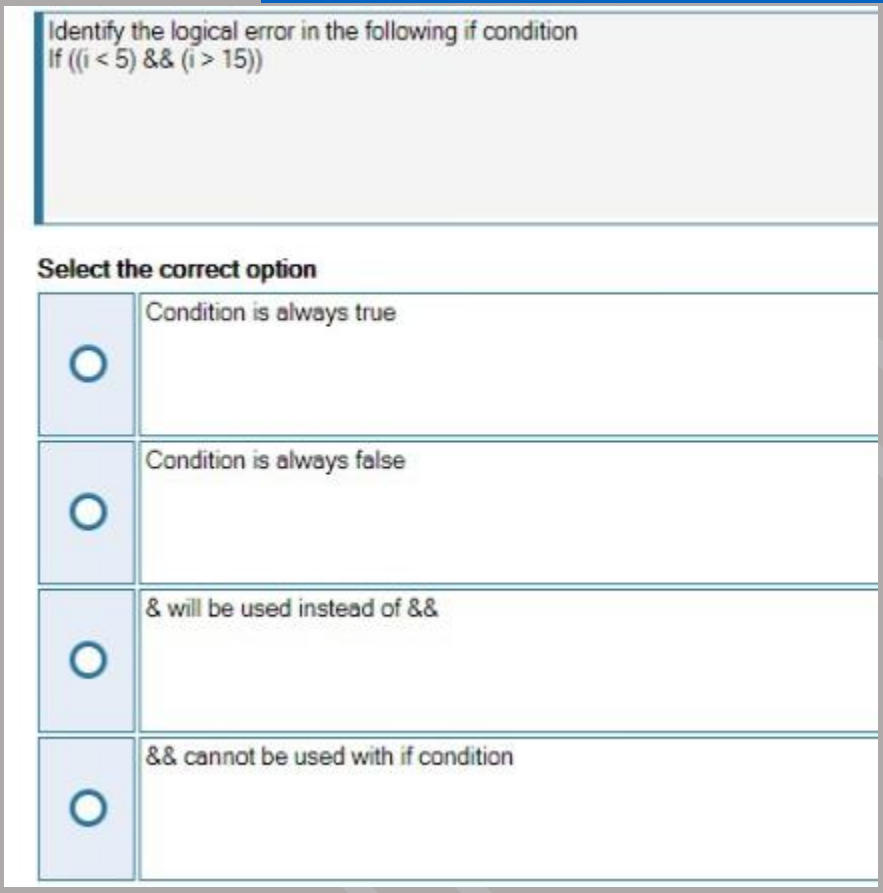
```
int a = 9;
int b = a++;
cout<<a;
cout<<b;
```

Select the correct option

- 10,9
- 9,10
- 9,9
- 10,10

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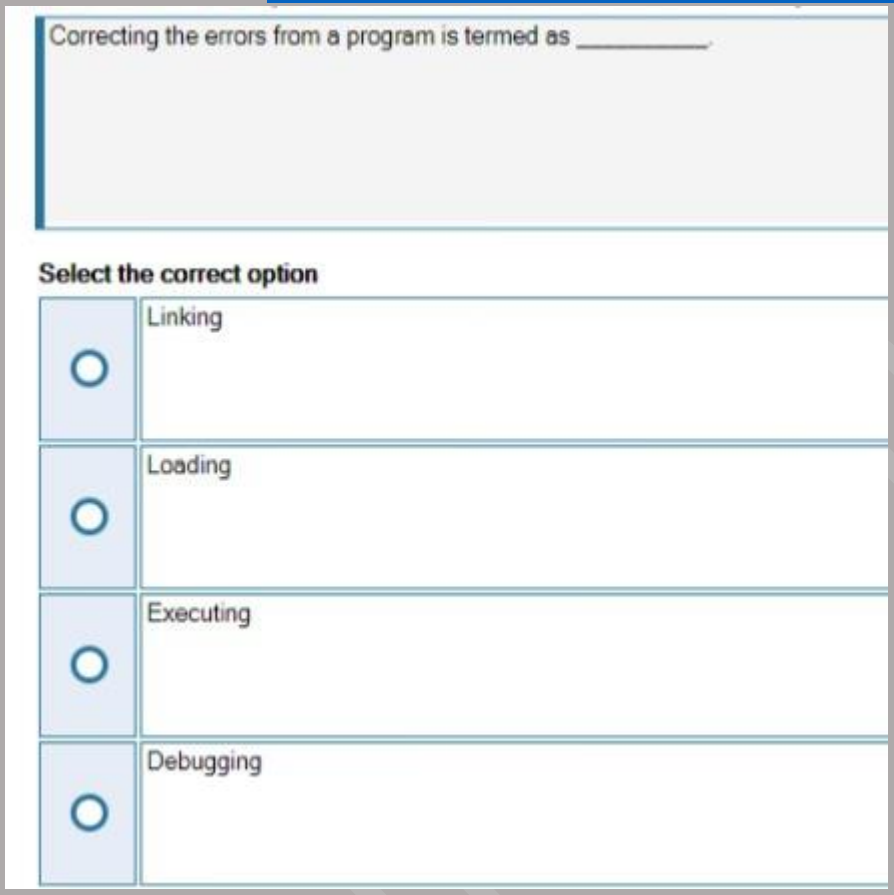
Identify the logical error in the following if condition
If ((i < 5) && (i > 15))

Select the correct option

- Condition is always true
- Condition is always false
- & will be used instead of &&
- && cannot be used with if condition

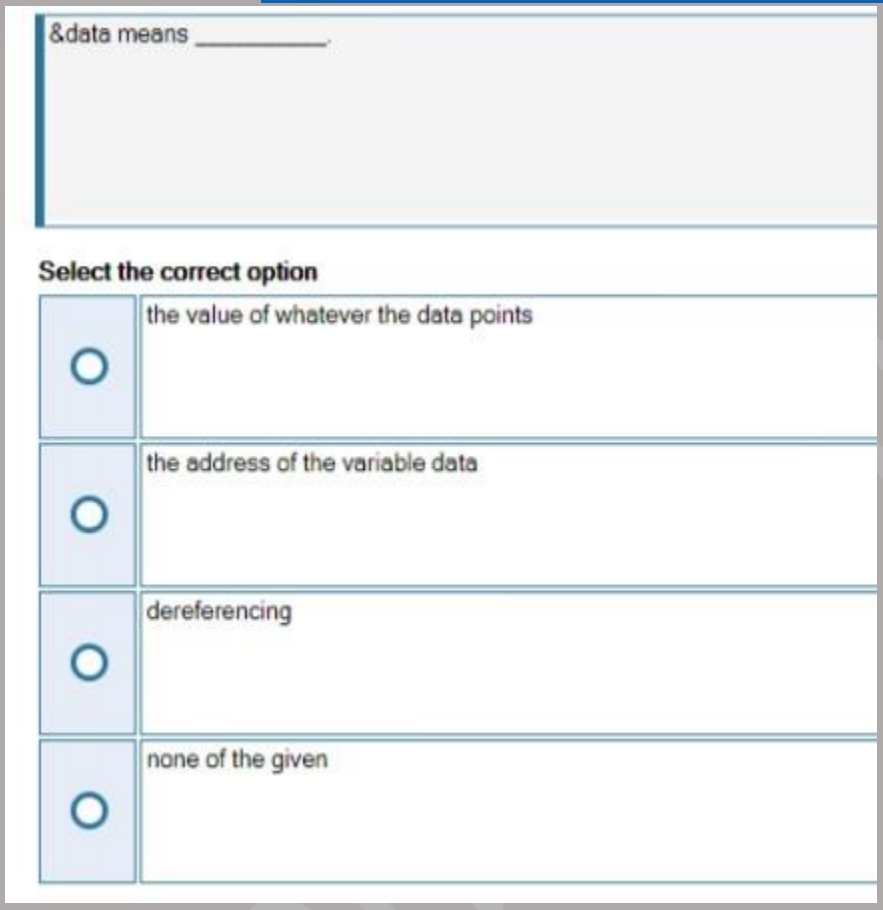
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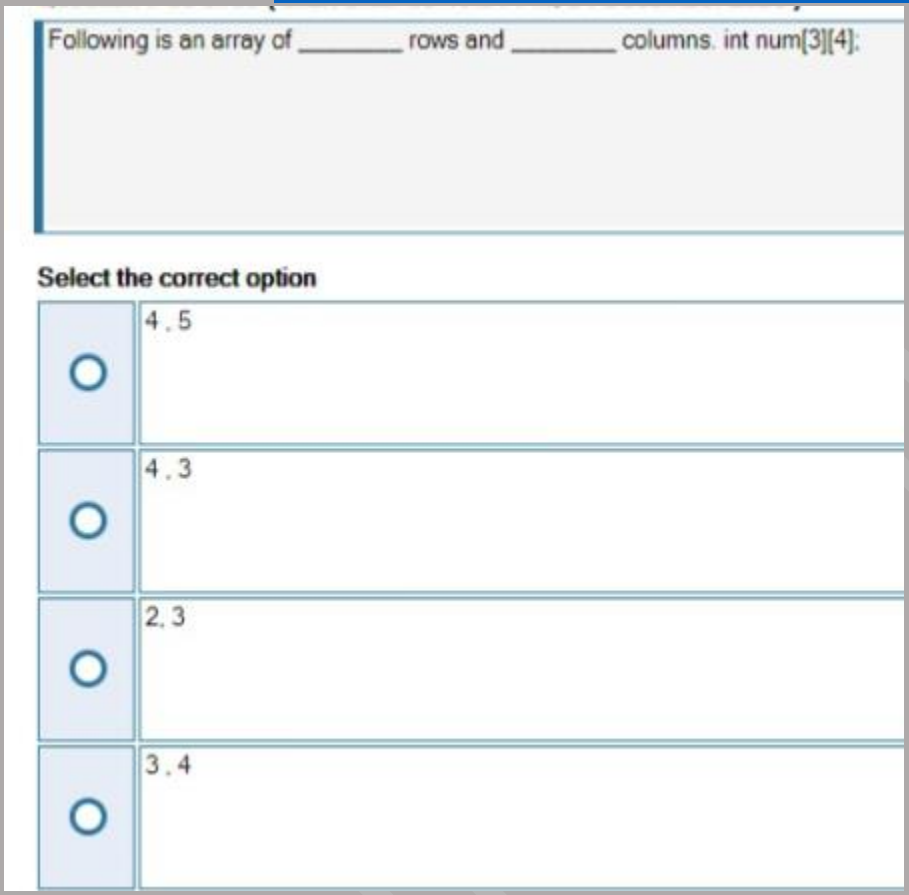
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The name of the array is a constant pointer which contains the memory address of the _____of the array.

Select the correct option

- first element
- Last element
- second element
- None of the given

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Following is an array of _____ rows and _____ columns. int num[3][4];

Select the correct option

- 4 , 5
- 4 , 3
- 2, 3
- 3 , 4

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When No. of repetition is known then we use the _____ structure to perform repetition tasks.

Select the correct option

- While loop
- Do while loop
- For loop
- Switch

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&& is a _____ operator.

Select the correct option

- Arithmetic
- Relational
- Logical
- Mathematical

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What will be the output of the following code snippet?

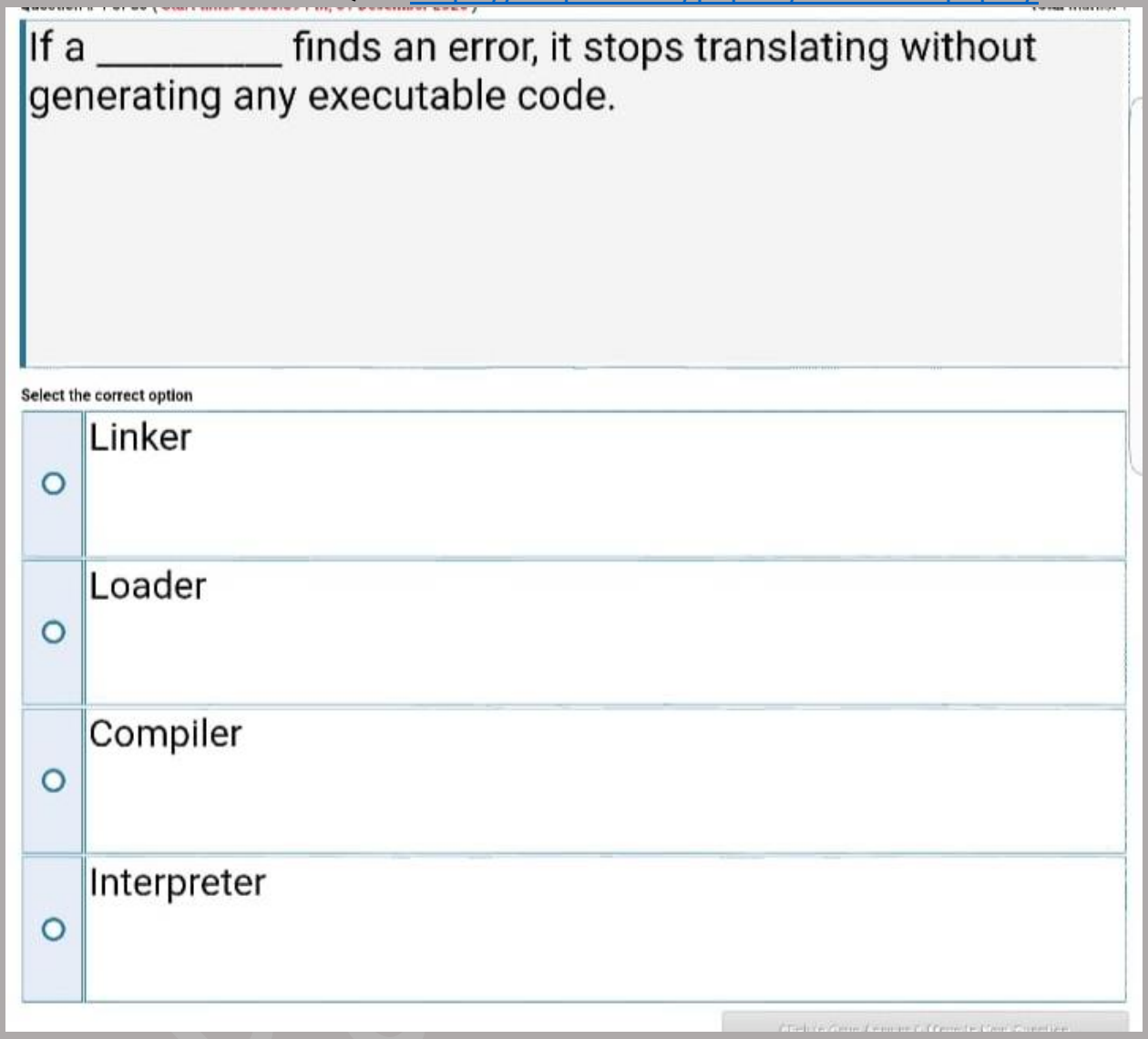
```
string str1 = "Hello beautiful";
string str2 = "Yes we can";
string str3 = strcpy(str1,str2);
cout<< str3 <<endl;
```

Select the correct option

- ○ Hello beautiful
- ○ Yes we can
- ○ Hello beautiful Yes we can
- ○ Yes we can Hello beautiful

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For the following statement, how much memory will be allocated to myarray[0]?
char * myarray[] = {"Arif", "Sadia"};

Select the correct option

- 4 Bytes
- 5 Bytes
- 6 Bytes
- 7 Bytes

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If y = 20 and z = y++, then the value of z will be _____.

Select the correct option

- 19
- 20
- 21
- 22

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_____ loop is mostly used to perform repetition of a tasks for a known number of times.

Select the correct option

- While
- Do-While
- For
- Nested Loop

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In two-dimensional array, we use _____ 'for loop(s)' to populate the array.

Select the correct option

- 1
- 2
- 3
- 4

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To perform repetition tasks for a known number of repetitions, most often used structure is _____.

Select the correct option

- For structure
- While structure
- Do-while structure
- None of the above

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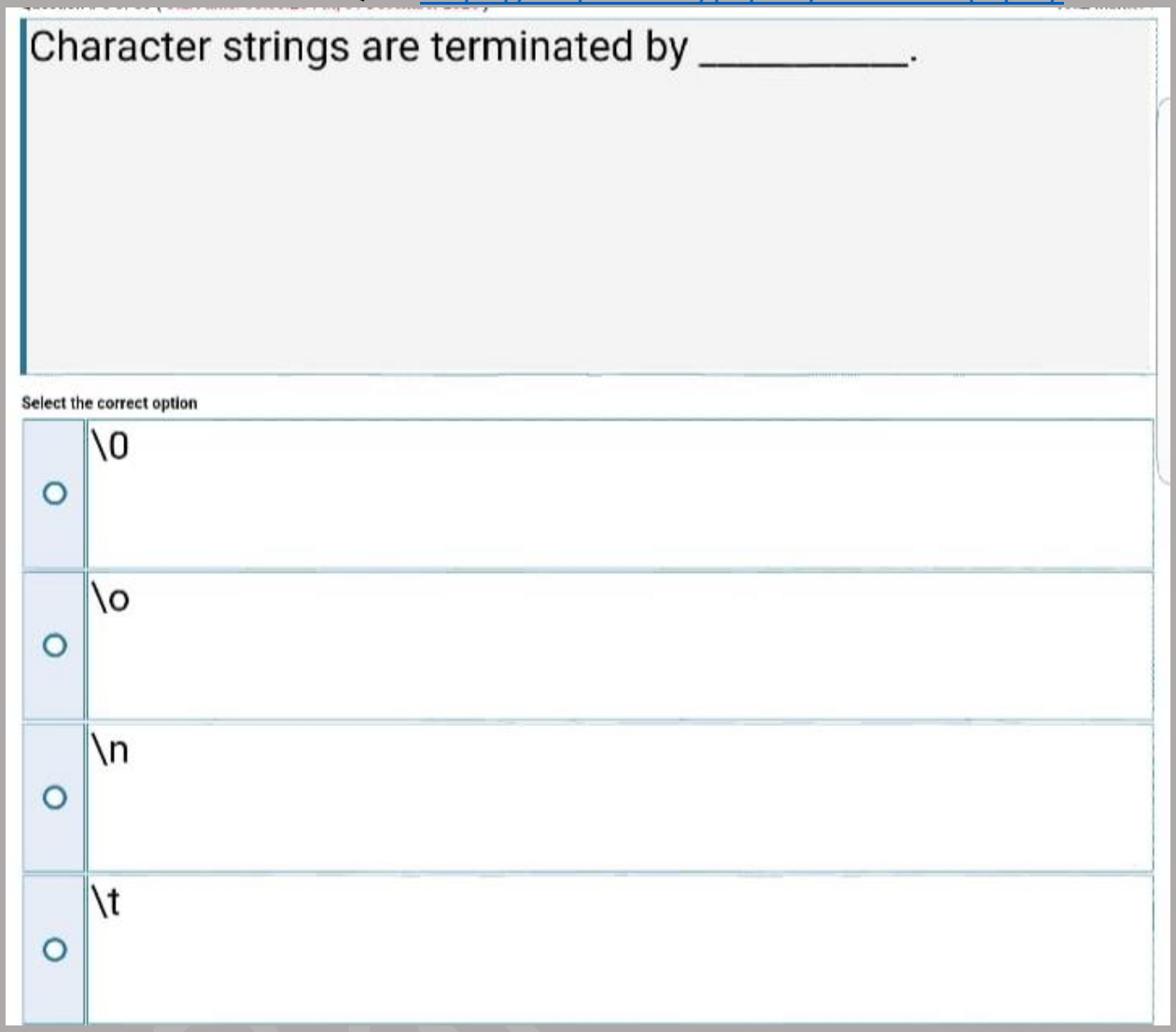
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_____are conventional names of the command line parameters of the 'main()' function.

Select the correct option

- ○ 'argb' and 'argv'
- ○ 'argc' and 'argv'
- ○ 'argc' and 'argu'
- ○ None of the given

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Character strings are terminated by _____.
Select the correct option
\0
\o
\n
\t

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The data, contained in the structure, is defined in the _____.

Select the correct option

- curly braces
- parenthesis
- inverted commas
- none

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In if structure the block of statements executes when the condition is _____.

Select the correct option

- Contains logical operator
- Contains arithmetic operator
- False
- True

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To manipulate n-dimensional array _____ nested loops are required.

Select the correct option

- n-2
- n-1
- n+1
- n

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A hierarchy of classes which are used to deal with console and disk files are called _____.

Select the correct option

- Stream classes
- Simple classes
- Binary classes
- IO classes

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Select the correct way to assign the address of first element of array to pointer?
int data[10];

Select the correct option

- int *ptr = &data[1];
- int *ptr = &data;
- int *ptr = data;
- int *ptr = data[0];

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What will be the correct syntax for declaration of the following statement?
"ptr is a constant pointer to an integer"

Select the correct option

- const * int myptr;
- const int *myptr;
- int const *ptr;
- int *const ptr ;

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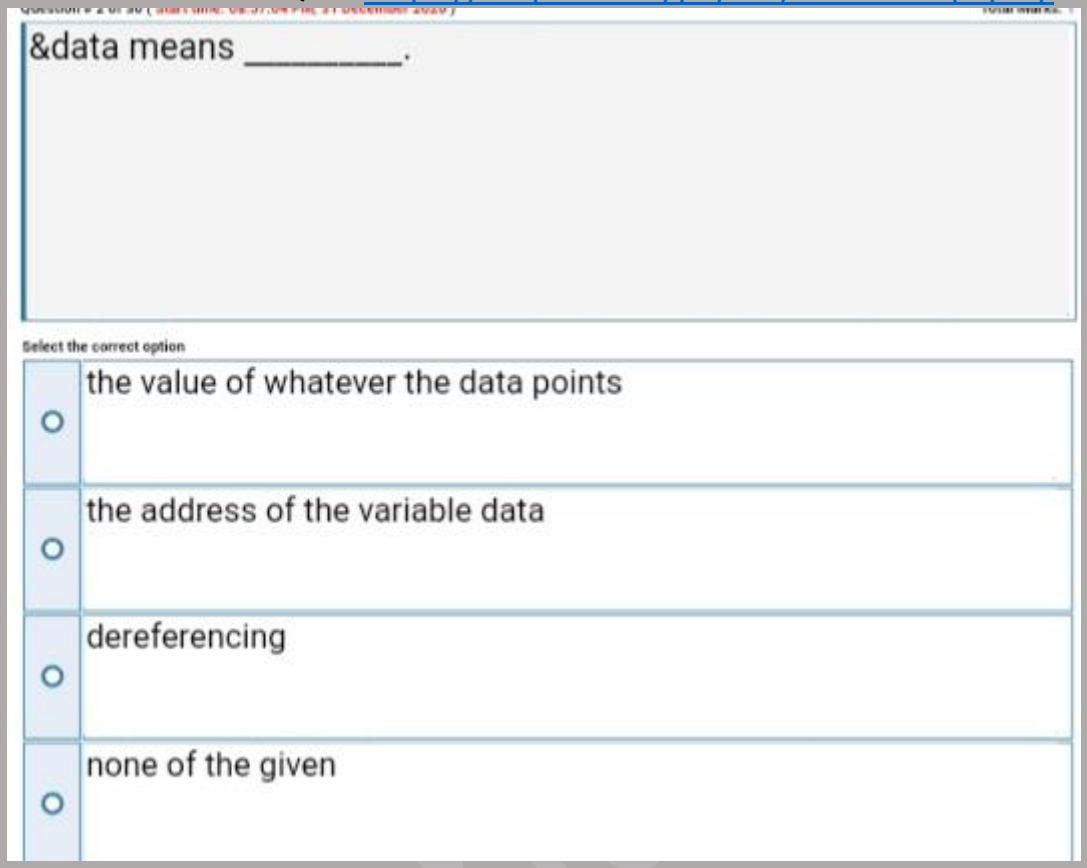
Which statement is used to close a file?

Select the correct option

- myFile.off();
- myFile.shut();
- myFile.closefile();
- myFile.close();

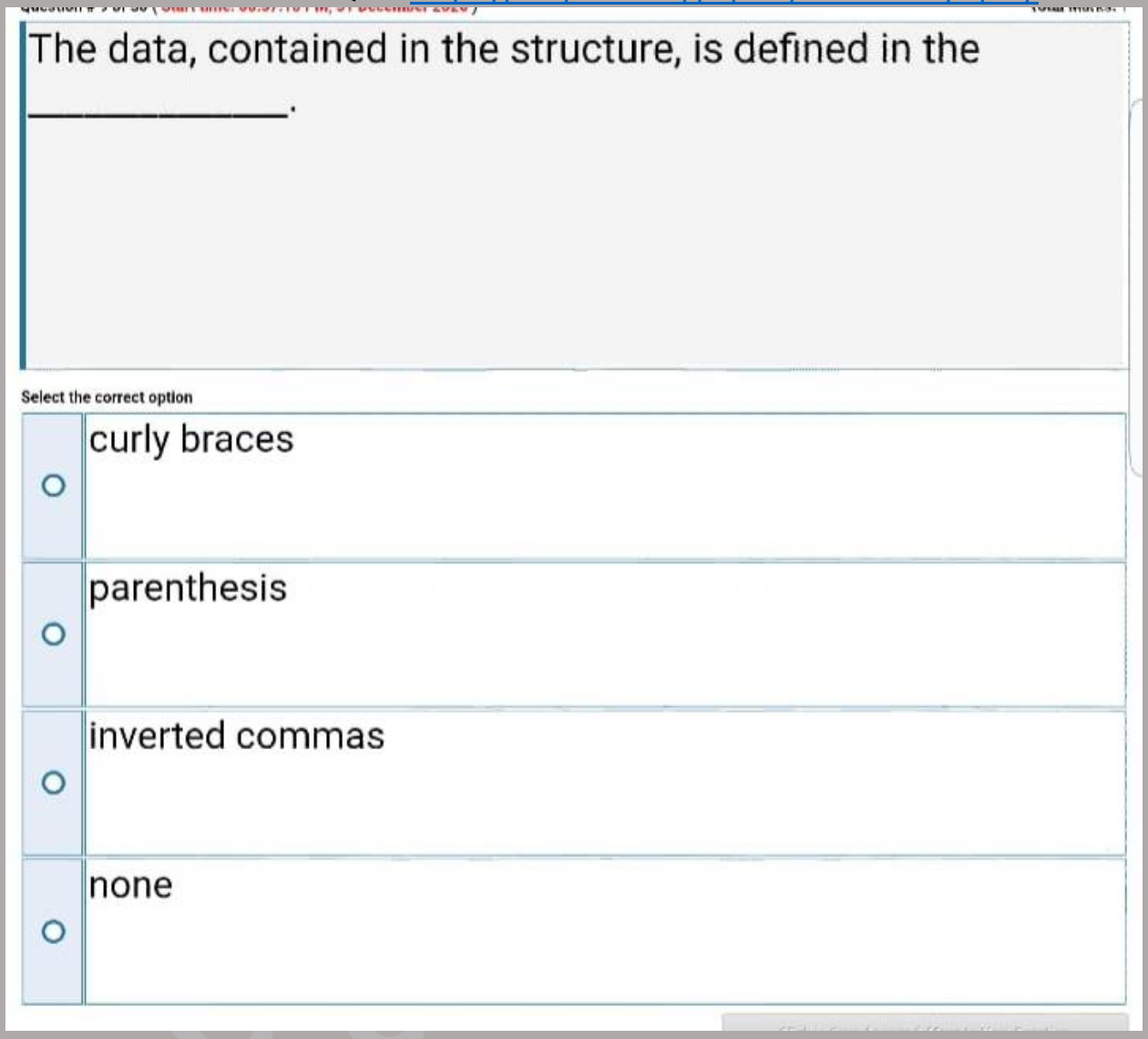
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Which of the following is one of the main categories of software?

Select the correct option

- Operating system
- System Software
- Device drivers
- Utilities

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