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Consider the structure

```
struct Customer  
{  
    int custnum;  
    int salary;
```

Answer ([Please click here to Add Answer](#))



```
{  
    int custnum;  
    int salary;  
    float commission;  
};
```

Write the code for declaring a Customer type variable cust1 and assign a value 2000 to the structure member salary.

Answer ([Please click here to Add Answer](#))



How two dimensional array relates with a matrix?

Answer ([Please click here to Add Answer](#))



Identify each of the given functions as string conversion function or string manipulation function.

1. double atof(const char *nptr)
2. char *strcpy (char *s1, const char *s2)
3. int atoi(const char *nptr)

Answer ([Please click here to Add Answer](#))



What is the output of following code snippet?

```
int array[7], sum = 0;
for(int i=0;i<7;i++)
{
    array[i] = i;
```

Answer ([Please click here to Add Answer](#))





```
sum+= array[i];  
}  
cout<< " Sum = " <<sum;
```

Answer ([Please click here to Add Answer](#))



Write the output of following program.

```
#include<iostream.h>
int main()
{
    int arr[5], i=-1, z;
```

Answer ([Please click here to Add Answer](#))



```
while(i<5)
    arr[i]=++i;

for(i=0; i<5; i++)
    cout<<arr[i]<<" ";
```

Answer ([Please click here to Add Answer](#))





```
for(i=0; i<5; i++)  
    cout<<arr[i]<<" ";  
  
return 0;  
}
```

Answer ([Please click here to Add Answer](#))





Write a program which takes a string from the user and searches it within another string "This is my Pakistan".

For example, if the user enters the string "my" then after search, the program should display the message "String found" otherwise it should display the message "string not found".

Answer ([Please click here to Add Answer](#))



If p and q are two pointers then what is the problem with the following statement?

```
cout << "p = " << p << ", p + q = " << p + q << endl;
```

Answer ([Please click here to Add Answer](#))

A rich text editor toolbar with various icons for document operations (new, open, save, print, find, copy, paste, undo, redo), editing (bold, italic, underline, text color, background color), and alignment (left, center, right, justified). It also includes a font face dropdown (Normal, Arial), a font size dropdown (12), and a zoom percentage dropdown (100%).

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If a structure is passed to a function, What will be the default calling convention (by value or by reference)?

Answer ([Please click here to Add Answer](#))



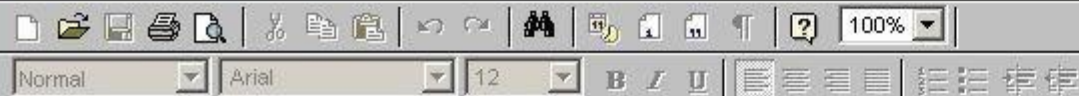
Explain the logic of the given program code and also determine its output.

```
#include <iostream.h>
```

```
#include<string.h>
```

```
main()
```

Answer ([Please click here to Add Answer](#))



```
1 char name[10]= "Khaqan";  
  
char msg[20] = "Welcome!";  
  
cout<<strncat(msg, name, 3);
```

Answer ([Please click here to Add Answer](#))



Normal

Arial

12

B*I*U



```
char msg[20] = "Welcome!";
```

```
cout<<strncat(msg, name, 3);
```

```
return 0;
```

```
}
```

Answer ([Please click here to Add Answer](#))





Write the code to for the following task.

Declare an integer array longroutes and a pointer routePtr and then assign the address of array longroutes to the pointer variable routePtr.

Answer ([Please click here to Add Answer](#))





Write a program which declares and initializes an integer array of 10 elements and then using a pointer, displays the array elements in reverse order.

Answer ([Please click here to Add Answer](#))



Find out errors in the program if any and after correction, write the output.

```
int main()
{
ofstream outfile;
long position;
```

Answer ([Please click here to Add Answer](#))



```
long position;  
char outfilename[] = "abc.txt";  
outfile.open(outfilename);  
if(!outfile)  
{  
    cout<<"Error Occured while opening a file";  
}
```

Answer ([Please click here to Add Answer](#))





```
    cout << "After Successfull opening a file ,  
    exit(1);  
}  
outfile.write("This is a car", 12);  
position = outfile.tellp();  
outfile.seekp(position-5);  
outfile.write("jar", 3);
```

Answer ([Please click here to Add Answer](#))



```
position = outfile.tell(),  
outfile.seekp(position-5);  
outfile.write("jar", 3);  
outfile.close();  
return 0;  
}
```

Answer ([Please click here to Add Answer](#))





Write the syntax for calling a string manipulation function which compares the first 5 characters of an array "name" with the string "asdf".

Answer ([Please click here to Add Answer](#))



What will be the value of x after the execution of the following code segment?

```
int x=10;
int y=30;
int *xptr = &x;
x = *xptr + 10;
```

Answer (Please [click here](#) to Add Answer)



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Assume that you write a program to read the data from a text file. You have two options to do it, either reading the data character by character or reading multiple lines of data at a time. Which option do you think is more better and Why ?

Answer ([Please click here to Add Answer](#))



Consider that an integer pointer xptr contains the memory address 0x22ff50. Now if the statement `xptr +=4;` is executed, how many bytes the pointer xptr will jump in the memory and what will be the new address of the xptr?

Answer ([Please click here to Add Answer](#))



Write a program which takes a string from the user and searches it within another string "This is my Pakistan".

For example, if the user enters the string "my" then after search, the program should display the message "String found" otherwise it should display the message "string not found".

Answer ([Please click here to Add Answer](#))



Detect and correct compile time error(s) in the following code.

Hints: The following code print numbers from 1 to 100.

```
void main()  
{
```

Answer ([Please click here to Add Answer](#))



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Answer (Please [click here](#) to Add Answer)

What happens if the file 'myfile.txt' does not exist and we still try to open it using the function `file.open("myfile.txt", ios:out)`?

Answer ([Please click here to Add Answer](#))



Write down the output of the following code segment?

```
int x[10] = {0,1, 2, 3, 4, 5, 6, 7, 8, 9};  
int *xptr;  
xptr = &x[5];  
cout << *(xptr++) + 1;
```

Answer ([Please click here to Add Answer](#))





Suppose if we want to store values like 10, 45.3, 4, A, D, 6.4, and 50 by using array. Can we store all these elements by declaring a single array? Yes or no ? Give reason to support your answer.

Answer ([Please click here to Add Answer](#))



Write the code for the declaration of a function named getMax which takes a 2D array of integers(3x3 dimension) as its parameter and returns a double pointer to an integer.

Answer ([Please click here to Add Answer](#))



Write a C/C++ program which defines an array of 15 characters and fills the array with string "12players2teams". Then using character handling functions, counts the number of digits and alphabets in the string and displays on the screen.

Sample output of program:

Number of digits in string: 3

Answer ([Please click here to Add Answer](#))



Write a C/C++ program which defines an array of 15 characters and fills the array with string "12players2teams". Then using character handling functions, counts the number of digits and alphabets in the string and displays on the screen.

Sample output of program:

Number of digits in string: 3

Number of alphabets in string: 12

Answer ([Please click here to Add Answer](#))



Write a code segment that displays the diagonal elements of a matrix of $N \times N$, where N can be any number and represents dimensions of matrix.

Answer ([Please click here to Add Answer](#))



A two-dimensional array has 3 rows and 4 columns. Write down the syntax to initialize first element of all three rows of two-dimensional array with value 2.

Answer ([Please click here to Add Answer](#))



Identify any logical or syntax error in the statement below and explain the reason of the error.

```
seekg (-10L, ios::beg);
```

Answer ([Please click here to Add Answer](#))



Using the given array declaration:

```
int arr[] = {1, 2, 3, 4, 5, 6, 7, 8, 9};  
int* arr_ptr = arr;
```

Find out the value of each of the expressions below.

Answer ([Please click here to Add Answer](#))



```
int arr_ptr = arr,
```

Find out the value of each of the expressions below.

1. `*(arr_ptr + 4)`
2. `(*arr_ptr)++`
3. `*(arr_ptr++)`

Answer ([Please click here to Add Answer](#))



If you are provided two methods for accessing a file; random and sequential. Which method will you prefer and why?

Answer ([Please click here to Add Answer](#))



Following are two programming statements; you have to write down the functionality of each statement?

- 1) `int *const intPtr = &x;`
- 2) `const int *intPtr = &x;`

Answer ([Please click here to Add Answer](#))



Find out errors in the program if any and after correction, write the output.

```
int main()
{
    ofstream outfile;
    long position;
```

Answer ([Please click here to Add Answer](#))



```
long position;  
char outfilename[] = "abc.txt";  
outfile.open(outfilename);  
if(!outfile)  
{  
    cout<<"Error Occured while opening a file";  
}
```

Answer ([Please click here to Add Answer](#))



```
    cout << "Enter the name of the file to be created : ";  
    exit(1);  
}  
outfile.write("This is a car", 12);  
position = outfile.tellp();  
outfile.seekp(position-5);  
outfile.write("jar", 3);
```

Answer ([Please click here to Add Answer](#))



```
position = outfile.tell(),  
outfile.seekp(position-5);  
outfile.write("jar", 3);  
outfile.close();  
return 0;  
}
```

Answer ([Please click here to Add Answer](#))

