

National University of Computer and Emerging Sciences, Lahore Campus



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OOP
BS(Computer Science)

Practice Questions

Course Code: CS217
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Instruction/Notes: •

Refer to DS Malik Chapter # 14, Exercise Questions 1 to 22

Question: For the code segment given below, determine output/error. In case of error highlight the exact line that will cause the error.

	Output/Error
<pre> #include<iostream> using namespace std; int* SomeFunction(int j, int x) { int* ptr = new int[j]; for(int i=0; i< j ; i++) { *(ptr+i)= i*5; x=i*5; cout<<ptr[i]<<" "; } cout<<endl; return ptr; } int main() { int* p; int var=90; p=var; cout<<"Var = "<<var<<endl; cout<<"In Main: *p = "<<*p<<endl; cout<<"Inside For Loop"<<endl; for(int i=0; i< 3 ; i++) { p = SomeFunction(i+1,var); } cout<<"Var = "<<var<<endl; delete[] p; return 0; } </pre>	

Question: For the code segment given below, determine output/error. In case of error highlight the exact line that will cause the error.

<pre>#include <iostream> using namespace std; void I_ptr(int *x, int s) { int c=10; for (int i=0;i<s;i++) { *(x+i)=i*c; c=c-i; } } void O_ptr(int *p,int s) { for (int i=0;i<s;i++) { cout<<*p<<endl; p++; } } int main() { int size=6; int *ptr; ptr=new int [6]; I_ptr(ptr,size); cout<<"Printing"<<endl; O_ptr(ptr,size); delete [] ptr; return 0; }</pre>	<p>Output/Error</p>
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Question: For the code segment given below, determine output/error. In case of error highlight the exact line that will cause the error.

	Output/Error
<pre>#include <iostream> using namespace std; void dd_ptr(int *x, int *&y, int *z) { x = new int; y = new int; z = new int; *x = 2; cout<<"Inside function "<<endl; cout<<" *x = "<<*x<<endl; *y = *x * 3 + 3; cout<<" *y = "<<*y<<endl; *z = *x + *y +10; cout<<" *z = "<<*z<<endl; } int main() { int *p,*q,*r; int l=2,m=3,n; p = &l; q = &m; n = *p * *q; r = &n; cout<<"Before Function Call "<<endl; cout<<" *p ="<<*p<<endl; cout<<" *q ="<<*q<<endl; cout<<" *r ="<<*r<<endl; dd_ptr(p,q,r); cout<<"After Function Call "<<endl; cout<<" *p ="<<*p<<endl; cout<<" *q ="<<*q<<endl; cout<<" *r ="<<*r<<endl; return 0; }</pre>	

Question: For the code segment given below, determine output/error. In case of error highlight the exact line that will cause the error.

```
#include<iostream>
using namespace std;
void main()
{
    int a,b,c;
    int *w , *x, *y, *z;
    z = 0;
    a = 10;
    b = a * 5;
    w = &a;
    x = &b;
    c = *w + *x;
    *z = c;
    cout<<" *w =\t"<<*w<<endl;
    cout<<" *x =\t"<<*x<<endl;
    cout<<" *y =\t"<<*y<<endl;
}
```

Question: Complete the missing code in the program given below.

```
#include<iostream>
using namespace std;

int* SomeFunction(int j)
{
    int* ptr = new int[j];

    for( int i=0; i< j ; i++)
    {
        ptr[i] = i+1;
    }
    return ptr;
}

void main()
{
    int* ptr[3];

    for( int i=0; i< 3 ; i++)
        ptr[i] = SomeFunction(i+1);

    //Write code to print all the data


    //Write code to de-allocate memory (if needed)
}
```

Question: For the code segment given below, determine output/error. In case of error highlight the exact line that will cause the error.

```
#include<iostream>
using namespace std;

int* GetArray()
{
    int size = 10;
    int* aPtr = new int[size];
    cout<<"\n\n\nInitialize and Print Array:\n";
    for(int i = 0 ; i < size ; i++)
    {
        aPtr[i] = i+1;
        cout<<aPtr[i]<<endl;
    }
    delete[] aPtr;
    return aPtr;
}

void main()
{
    int* myArray = GetArray();
    cout << "I am back in main()" << endl;
    cout<<"\n\n\nmyArray[0]:\t"<<myArray[0]<<endl;
}
```