

March 1st, 2017

What is the output of each of the following programs or do as specified.

Question 1 <pre>#include <iostream> #include <string> using namespace std; int main(){ string lname="Cooper", fname = "John"; int x = 3; bool b = false; if(x>= (23%19)) cout <<"First Name:"<<fname<<endl; cout <<" Last Name:"<<lname<<endl; while (!b && x>0) cout<<lname<<","<<fname<<endl; x--; return 0; }</pre>	Question 2 <pre>#include <iostream> #include <string> using namespace std; char boo(){ return '\$'; } string koo(string s){ for(int i = s.length()-1;i>1; i--){ s[i]= boo(); } return s; } int main(){ cout<< koo(koo("Hello"))<<endl; return 0; }</pre>
Question 3 <pre>#include <iostream> #include <string> using namespace std; int boo (int z, int x, int y) { for (int k=0;k<z;k++) { cout<<(!k && z)<<"\t"; } return (x=5); } void koo(int y, int x, int z) { for(int j=z;j>x++;j--) cout<<boo(z, y, x); } void foo(int x, int y, int z) { for(int i=x;i<y;i+=z) koo(i, y, z); } int main() { string s="\n"; cout<<"Start"<<endl; foo(1,2,3); cout<<s<<"End"<<endl; }</pre>	Question 4 <pre>#include <iostream> #include <string> using namespace std; void foo() { for(int i=0;i<2;i++) for (int j=0;j<2;j++) for (int k=0;k<2;k++) cout<<i<<"\t" <<j<<"\t" <<k<<endl; } int main() { string s="\n"; cout<<"Start"<<endl; foo(); cout<<s<<"End"<<endl; }</pre>

BTE 320 Quiz 1 (Exam Extra Credit) – 5 Points

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Question 5 (Gift)

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

int foo(int x, int &y, int z) {
    return (y=z<x?z=y+x:y=z-x);
}

int main() {
    int x(40), y(15), z(5);
    cout<<foo(y,z,x)<<endl;
    cout<<x<<"\t"<<y<<"\t"<<z<<endl;
}
```

Question 7

```
#include <iostream>
using namespace std;
int main()
{
    int x=0;
    while((x<=1) && (x>=10))
    {
        cout << "Please enter a number
between 1 and 10";
        cin >> x;
    }
    cout << endl;
    cout << "You entered the number "
<< x<< endl;
    return 0;
}
```

Question 6 (Gift)

Write a FULL C++ "Hello World" Program

Question 8

In the following code, which statement causes execution to skip to the next iteration of the loop?

```
#include <iostream>
using namespace std;
int main()
{
    for(int n = 10; n>0; n--)
    {
        if(n==5)
            //Which statement goes
here?
            cout << n << ", ";
    }
    return 0;
}
```

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Question 9

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

// watch for scope

int main()
{
    int first = 2;
    int second = 0;

    while (first < 20)
    {
        int second = first * 2;
        cout << "\tsecond = " << second <<
endl;
        first *= 2;
        if (first > 10)
        {
            int first = second;
            first = first/10;
            cout << "\tfirst = " << first
<< endl;
        }
        cout << "first = " << first <<
endl;
    }
    cout << "second = " << second << endl;
    return 0;
}
```

Question 10

What is the output ? Can you draw it with parted hair?

```
#include <iostream>
using namespace std;
// procedures used to print different
//heads
void PartedHair() {
    cout << " |||||///////// " <<
endl;}
void Hair() {
    cout << " ||||| " <<
endl;}
void Sides() {
    cout << " | " <<
endl;}
void Eyes() {
    cout << " | o o | " <<
endl;}
void Ears() {
    cout << " _| _ " <<
endl;
    cout << " | _ " <<
endl;}
void Smile() {
    cout << " | _____ | " <<
endl;}

int main()
{
    Hair(); Sides(); Eyes(); Ears();
    Smile(); Sides();
    return 0;
}
```