Question #3 (10 pts)

Write a C++ program to print "HELLO" using cout statements

Sample Output:

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Question #4 (50 pts)

Write a C++ program to swap first and last digits of a 6 digit integer.
You should store the swapped result inside a second integer then output the result using a cout statement.

Sample Output:

input: 123456
After swapping: 623451

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- Good luck :) -

Question #1 (10 pts)

1. (10 pts) Write a C++ program to get 3 float values from the user, calculate their average, and then print the values that are less than the average.

```
#include<iostream>
using namespace std;
int main( ){
float A, B, C = 0.0, average;
Cout<<"Enter the 3 values"<<endl;
Cin>>A>>B>>C;
average = (A+B+C)/3;
IF(A<average){
Cout<<"A is less than average<<endl;
}
If(B<average){
Cout<<"B is less than average<<endl;
}
If(C<average){
Cout<<"C is less than average<<endl;
}
else{
Cout<<No less than average<<endl;
}
system("Pause")}
return 0;}
```

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Question #2 (30 pts)

Trace the below code and write the output in the provided space (box).

```
#include <iostream>

using namespace std;
int main () {

    int x = 0;
    cout << "Enter a value for x: ";
    cin >> x;

    if (x < 5) {
        int i = 0;
        while (i < 6) {
            if (x%2 == 0 && x < 2) {
                cout << "Hello world\n";
            }
            x -= 3;
            i++;
        }
    } else {
        int i = 10;
        while (i >= 0) {
            if (x%2 == 0 && x > 5) {
                cout << "Hello: " << i << endl;
            }
            x -= 2;
            --i;
    }
}

    system("pause");
    return 0;
}
```

x = x - 3 { x = x - 3 / 2 - 3 / x = -1 } = -4 | => -4-3 | -7-3 | -10-3 / = -7 | = -10 | => -13

x = 2

i: 1 2 3 4 5 6

x: 0 3 0 -3 -6 -9 -12 → ① %2 and less, ② ~ ~ ~, ③ ~ ~ ~

Command line:

```
Hello world
Hello world
Hello world
Hello world
Press any key to continue . . .
```

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