

CS101/Quiz/# 5, Wednesday, April 7

1. What is the output?

```
#include<iostream.h>
class Vec{
private:
double x, y, z;
public:
void init();
void print_vec();
Vec rotate();
};
void Vec::init(){
x = 5; y = 2; z = 4;}
void Vec::print_vec(){
cout << "(" << x << "," << y << "," << z << ")";}
Vec Vec::rotate(){
Vec c;
c.x = y; c.y = z; c.z = x;
print_vec();
cout << endl;
c.print_vec();
cout << endl;
return c;
}
void main(){
Vec a, b;
a.init();
b = a.rotate();
}
```

Output:
(5,2,4)
(2,4,5)

QUESTION 2 IS ON THE BACK.

2. The file `input.dat` is this:

```
5 7 -1 4 10 6 -1 0 6 19
```

What is the output of the following program?

```
#include<iostream.h>
#include<fstream.h>
const int NUM = 10;
void read_data(int [],int&);
void print_data(int [],int);
void main(){
    int n, a[NUM];
    read_data(a,n);
    print_data(a,n);
}
void read_data(int b[],int &m){
    ifstream infile("input.dat");
    for(m=0; m<NUM; m++){
        infile >> b[m];
        if (b[m] == -1) break;
    }
}
void print_data(int b[], int m){
    for(int i=0; i<m; i++)
        cout << b[i] << endl;
}
```

Output: 5 7
