1. What is the output of the following program segment? Write your answer below each cout statement.

```
typedef int * intPtr;
intPtr
          p, q;
          x=5, y=10;
int
p=&y;
q=p;
*q = *p+10;
x=*q - 10;
y = x - 5;
cout << x << " " << y << " " << *p << " " << *q << endl;
p=new int;
p = 5;
*q = *p + 5;
x = *q;
cout << x << " " << y << " " << *p << " " << *q << endl;
```

- 2. Show the C++ statement to release the memory space pointed at by the pointer 'p'.
- - a) Show the C++ statement to declare a pointer variable named "ptr" that can be used to point to a memory location for a **bookType** value.
 - b) Show the C++ statement to dynamically acquire the memory space for data of type "bookType" and let pointer variable "ptr" point to that memory location.
 - c) Show the C++ statement to assign the title of the book "The Departed" using the pointer variable "ptr"