## **Solution to Practice Problem 1 – Part 1, Output**

```
int main() {
    int a = 10;
    int b = 20;
    int c = 30;
    int* p1 = &a;
    int* p2 = &b;
    int* p3 = &c;
    printf("%i %i %i\n", *p1, *p2, *p3);
    *p3 = 66;
   p3 = p2;
    p2 = p1;
    *p1 = *p1 + 100;
    *p2 = *p2 + 400;
    *p3 = *p3 + 800;
    printf("%i %i %i\n", *p1, *p2, *p3);
    printf("%i %i %i\n", a, b, c);
    return EXIT SUCCESS;
}
```

Draw a box-and-pointer diagram to indicate what the following snippets of code are doing. Also show what is output.

```
Output:

10 20 30
510 510 820
510 820 66
```

**Box and pointer diagram** (you can just cross out things to show how they change as the code executes):

First compare your Output to our Output above.

- If your answer is wrong, rework the problem if you can. Ask questions as needed.
- If your answer is right, continue by comparing your box and pointer diagram to our solution.