## P35. Exercises for Section 1.6

**Exercise 1.6.1**: For the block-structured C code of Fig. 1.13(a), indicate the values assigned to w, x, y, and z.

Exercise 1.6.2: Repeat Exercise 1.6.1 for the code of Fig. 1.13(b).

```
int w, x, y, z;
                                  int w, x, y, z;
 int i = 4; int j = 5;
                                  int i = 3; int j = 4;
     int j = 7;
 {
                                  {
                                      int i = 5;
     i = 6;
                                      w = i + j;
     w = i + j;
                                  }
 }
                                  x = i + j;
                                  {
 x = i + j;
                                      int j = 6;
 {
    int i = 8;
                                      i = 7;
     y = i + j;
                                      y = i + j;
 }
                                  }
z = i + j;
                                  z = i + j;
(a) Code for Exercise 1.6.1
                                (b) Code for Exercise 1.6.2
```

Figure 1.13: Block-structured code

**Exercise 1.6.3**: For the block-structured code of Fig. 1.14, assuming the usual static scoping of declarations, give the scope for each of the twelve declarations.

Figure 1.14: Block structured code for Exercise 1.6.3