7.9

(d) $((-a)^1$ **or** $((c = d)^2$ **and** $e)^3)^4$

(e) $(((a > b)^1$ **xor** $c)^3$ **or** $(d <= 17)^2)^4$

7.10

(d) $(-(a$ **or** $(c = (d$ **and** $e)^1)^2)^3)^4$

(e) $(a > (b$ **xor** $(c$ **or** $(d <= 17)^1)^2)^3)^4$

7.13

a. sum1 = $(i_{old} / 2)$ + fun(&i_{new}) = (10 / 2) + (3 * (10 + 4) – 1)
= 5 + 41 = 46

sum2 = fun(&j_{old}) + (j_{new}/2) = (3 * (10 + 4) – 1) + (14 / 2)
= 41 + 7 = 48

b. sum1 = fun(&i_{old}) + (i_{new}/2) = (3 * (10 + 4) – 1) + (14 / 2)
= 41 + 7 = 48

sum2 = (j_{old} / 2) + fun(&j_{new}) = (10 / 2) + (3 * (10 + 4) – 1)
= 5 + 41 = 46

7.19

a. x = x_{old} + fun(&x_{new}) = 3 + 4 = 7

b. x = fun(&x_{old}) + x_{new} = 4 + (3 + 5) = 12

8.3

```
switch (k)
   {
   case 1:
   case 2:
      j = 2 * k - 1;
      break;
   case 3:
   case 5:
      j = 3 * k + 1;
      break;
   case 4:
      j = 4 * k - 1;
      break;
   case 6:
   case 7:
   case 8:
      j = k - 2;
      break;
   default:
      break;
   }
```

8.4

```
int j = -3;
   for (int i = 0; i < 3; i++)
   {
      if ((j + 2) == 3 || (j + 2) == 2)
      {
         j--;
      } else if ((j + 2) == 0)
      {
         j += 2;
      } else
      {
         j = 0;
      }
```

```
    if (j <= 0)
    {
        j = 3 - i;
    }
}
```

9.5

(a)
value = 2, list = {1, 3, 5, 7, 9}
value = 2, list = {1, 3, 5, 7, 9}
value = 2, list = {1, 3, 5, 7, 9}

(b)
value = 1, list = {2, 3, 5, 7, 9}
value = 1, list = {3, 2, 5, 7, 9}
value = 2, list = {3, 1, 5, 7, 9}

(c)
value = 1, list = {2, 3, 5, 7, 9}
value = 1, list = {3, 2, 5, 7, 9}
value = 2, list = {3, 1, 5, 7, 9}

9.7

(a)
list = {1,3}

(b)
list = {2,6}

(c)
list = {2,6}