```
1   int main() {
2      int x, b1, b2, y;
3      scanf("%d", &x);
4      b1 = even(x);
5      b2 = odd(3);
6      y = compute(x);
7      return 0;
8   }

10  int compute(int x) {
11     int sum, i;
12     if (x == 2)
13        scanf("%d", &sum);
14     else
15        sum = 0;
16     for(i = 0; i < x; ++ i)
17        sum += i;
18     return sum;
19  }

21  int odd(int x) {
22     if (x == 1)
23        return 0;
24     else
25        return even(x − 1);
26  }

28  int even(int x) {
29     if (x == 0)
30        return 1;
31     else
32        return odd(x − 1);
33  }
```

Figure 1. Motivating Example