Homework assignments are to be completed individually. Hand-written submissions are fine, but they must be readable. Due at the beginning of class. Total points: 100, 5% of course grade

2. [15 Points] Exercise 11.7.2 in the book.
6. [20 points] Alias Analysis

```c
int g;

main() {
    int **a, **b, *c, *d, e, f, *r, *s;
    S1 c = &e;
    S2 d = &f;
    S3 a = &c;
    S4 b = &d;
    S5 r = bar( a );
    S6 s = bar( &d );
}

int* bar(int **z) {
    int *q;
    S7 q = *z;
    S8 q = &g;
    S9 return q;
}
```

For the above program, perform flow-sensitive, context-sensitive alias analysis (FSCS) and flow-insensitive, context-sensitive alias analysis (FICS). Showing your work will help in the assignment of partial credit.

(a) For FSCS, what is the points-to set for variables r and s after statement S6?
(b) For FICS, what is the points-to set for variables r and s in the main function?