

SOCIAL LEARNING

Week 1 Lecture 1 3/3

Week 1 Lecture 2 2/3

Week 1 Discussion 0/1

Week 1 Lab 3/4

```
#include <stdio.h>
```

```
struct Grade {  
    char name[20];  
    int pts;  
    int max_pts;  
};
```

```
void example1() {  
    Grade g = { "Week 1 Lec 1", 1, 3 };  
    printf("%ld\n", sizeof(g));  
    printf("%p %p %p %p\n", &g, &g.name, &g.pts, &g.max_pts);  
}
```

```
typedef struct Grade Grade;
```

```
void show_grade(Grade g, char* result) {  
    sprintf(result, "%s: %d/%d", g.name, g.pts, g.max_pts);  
  
}
```

```
void example2() {  
    Grade g = { "Week 1 Lec 1", 1, 3 };  
  
}
```

```

void regrade(Grade to_change, int new_pts) {
    to_change.pts = new_pts;
}

void example3() {
    Grade wk1 = { "Week 1 Lab", 0, 4 };
    regrade(wk1, 1);
    printf("Regrading 0 to 1: %d/%d\n", wk1.pts, wk1.max_pts);
}

```

```

void really_regrade(
) {
}

```

```

void example4() {
    Grade wk1 = { "Week 1 Lab", 0, 4 };
    really_regrade(
);
    printf("Regrading 0 to 1: %d/%d\n", wk1.pts, wk1.max_pts);
}

```

```

#define NUM_SOCIALS 40
typedef struct Summary {
    char student_name[100];
    Grade social_learning[NUM_SOCIALS];
} Summary;

```

```

Summary student1 = { "Jeremy Beremy",
    { { "Week 1 Lec 1", 3, 3 },
      { "Week 1 Lab", 4, 4 },
      { "Week 1 Discussion", 0, 1 } } };

```

```

void show_summary(Summary s) {
    printf("%s Social Learning\n", s.student_name);
    for(int i = 0; i < NUM_SOCIALS; i += 1) {
        Grade sl = s.social_learning[i];
        if(sl.name == NULL) { break; }
        printf("%s:\t %d/%d\n", sl.name, sl.pts, sl.max_pts);
    }
}

```

```

int total =
printf("Total: %d\n", total);
}

```

```

void example5() {
    show_summary(student1);
}

```