EECE.2160 Spring 2017: Exam 3
Structure and Function Definitions for Questions 2 & 3

Question 2b (`MyStruct` structure and `myPrint()` function)

```
typedef struct {
    int a;
    double b;
} MyStruct;

void myPrint (MyStruct * input) {
    printf("%d %.2lf\n", input->a, input->b);
}
```

Question 2c (`LLNode` definition and `func1()` and `func2()` definitions)

```
typedef struct node{
    int value;
    struct node *next;
} LLnode;

void func1(LLnode *list) {
    LLnode *cur = list;
    while (cur != NULL) {
        printf("%d ", cur->value);
        cur = cur->next;
    }
    printf("\n");
}

LLnode *func2(LLnode *list) {
    LLnode *cur = list;
    while (cur != NULL && cur->next != NULL) {
        if (cur->next->value == cur->value)
            cur->next = cur->next->next;
        else
            cur = cur->next;
    }
    return list;
}
```

SEE OTHER SIDE FOR STRUCTURE DEFINITIONS FOR QUESTION 3

EECE.2160 Fall 2016: Exam 3
Structure Definitions for Questions 2 & 3

Question 3a (matrix multiplication)

```
typedef struct {
    int nr;              // Number of rows
    int nc;              // Number of columns
    int mat[10][10];     // 2-D array holding actual matrix
                         //   10 x 10 is max size
} Matrix;
```

Question 3b (find 3-D box with maximum volume)

```
typedef struct {
   double W;         // Width of box
   double L;         // Length of box
   double H;         // Height of box
} Box;
```

Question 3c (print inventory of in stock auto parts)

```
typedef struct {
    char make[10];   // Auto make (i.e., manufacturer)
    int  year;       // Year of manufacture
} Auto;

typedef struct {
    char   name[10];     // Part name
    Auto   type;         // Type of car
    int    inStock;      // = 1 if in stock, 0 otherwise
} AutoPart;
```