CS1713 Introduction to Computer Programming II
Exercise #07: Structure

Part I: Write a C program to test the following code with structure. Show the output on the right side.

```
struct {
    double dGPA;
    char szName[20];
    char szMajor[4];
} student = {3.5, "Bill Board", "CS"};
int i = 2;
char *pCh;
```

```
printf("A. Addr of dGPA=%p\n", &student.dGPA);
printf("B. Addr of szName=%p\n", student.szName);
printf("C. Addr of szMajor=%p\n", student.szMajor);
pCh = &student.szName[i];
printf("D. Addr of szName[i]=%p\n", pCh);
pCh++;
printf("E. Addr of pCh=%p\n", pCh);
printf("F. String at pCh=%s\n", pCh);
```

Output:

Part II: Declare a structure called **Date** to store information for dates, including day(int), month(int) and year(int) in the structure. Implement the following functions that use the structure **Date**.

```
int within60days(struct Date d1, struct Date d2);
```

The function should return 1 if d1 and d2 are within 60 days of each other and 0 otherwise. The parameters for this function need not be in order and d1 could be before d2 or after d2. You can assume that each month is 60 days for this function.