

Due: March 17, 2008

Consider the following C definitions:

```
struct studentStruct {
    char lastName[15] ;
    char firstInitial ;
    char middleInitial ;
}

struct enrRecord {
    struct studentStruct student ;
    struct enrRecord *next ;
}
```

In this homework, assume you are working with a C procedure that starts with the following header and local variable declarations:

```
int examp11(struct enrRecord *ptrRec) {
    char a, b, c ;
    struct studentStruct  studentInfo ;
    struct studentStruct *ptrStudent ;
    struct enrRecord      *nextRec ;
```

**Problem 1:**

Define a symbol table, appropriate for the LC/3, for the `examp11` procedure.

**Problem 2:**

Define appropriate LC/3 code for the following C statements:

```
Studentinfo.firstInitial = 'J' ;
```

```
Studentinfo.lastName[2] = 'r' ;
```

```
nextRec = ptrRec ;
```

```
nextRec = nextRec->next ;
```

```
ptrStudent = NULL ;
```

```
ptrStudent = &studentInfo ;
```

```
ptrStudent = &(ptrRec->student) ;
```

```
ptrRec->next = nextRec ;
```

```
ptrRec->student.middleInitial = 'D' ;
```