

1) (10 pts) DSN (Dynamic Memory Management in C)

Consider the following typedef struct definition that represents a book.

```
//struct representing a book with content
typedef struct {
    char ** sentences; // actual sentences
    int numSentences; // total number of sentences
    char * title; // book title
    char * author ; // book author
} book_t;
```

Complete the following user defined function definition that properly deallocates all memory associated with the heap space of the struct type `book_t`. The parameters of the function contain the reference to heap space of where the **array** of `book_t` is stored along with the total number of elements as `numBooks`. Note that within each type `book_t`, `sentences` is an array of `numSentences` strings, where each string was dynamically allocated, as were the strings `title` and `author`.

```
void cleanUp(book_t * lib, int numBooks){
```

```
}
```