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

This problem relies on the following struct definition:

```
typedef struct Employee
{
  char *first; // Employee's first name.
  char *last; // Employee's last name.
  int ID; // Employee ID.
} Employee;
```

Consider the following function, which takes three arrays – each of length n – containing the first names, last names, and ID numbers of n employees for some company. The function dynamically allocates an array of n Employee structs, copies the information from the array arguments into the corresponding array of structs, and returns the dynamically allocated array.

- a) Fill in the blanks above with the appropriate arguments for each *malloc()* statement.
- b) Next, write a function that takes a pointer to the array created by the *makeArray()* function, along with the number of employee records in that array (n) and frees <u>all</u> the dynamically allocated memory associated with that array. The function signature is as follows:

```
void freeEmployeeArray(Employee *array, int n)
{
```