```c
1 /*
2  * emp.c
3  *
4  *  Created on: Sep 11, 2017
5  *   Author: Nathaniel Churchill
6  */
7
8 #include <stdlib.h>
9 #include <string.h>
10 #include "emp.h"
11 #include "date.h"
12
13 /*
14 * allocate space for a Emp
15 *
16 * empId : the employee id
17 * empIndicator : the employee indicator
18 * deptCode : the department code
19 * firstName : the first name of the employee
20 * lastName : the last name of the employee
21 * salary : the salary of the employee
22 * hireDate : the date the employee was hireDate
23 * vacationDays : vacation days of employee
24 * training : a byte representing the training of the employee
25 * returns : Emp
26 */
27 Emp *allocEmp char *empId, char *employeeIndicator, char *deptCode, char *firstName, char
   *lastName, float salary,  Date *hireDate, int vacationDays, char training) {
28     Emp *emp = malloc sizeof Emp ) );
29
30     emp->empId = malloc strlen empId  + 1 );
31     strcpy emp->empId, empId );
32
33     emp->employeeIndicator = malloc strlen employeeIndicator  + 1 );
34     strcpy emp->employeeIndicator, employeeIndicator );
35
36     emp->deptCode = malloc strlen deptCode  + 1 );
37     strcpy emp->deptCode, deptCode );
38
39     emp->firstName = malloc strlen firstName  + 1 );
40     strcpy emp->firstName, firstName );
41
42     emp->lastName = malloc strlen lastName  + 1 );
43     strcpy emp->lastName, lastName );
44
45     emp->salary = salary;
46     emp->hireDate = hireDate;
47     emp->vacationDays = vacationDays;
48     emp->training = training;
49
50     return emp;
51 }
52
```