

company.c

```
1 /*
2  * company.c
3  *
4  * Created on: Sep 11, 2017
5  * Author: Nathaniel Churchill
6  */
7
8 #include <stdlib.h>
9 #include <string.h>
10 #include "company.h"
11 #include "dept.h"
12
13
14 Comp *allocComp() {
15     Comp *company = malloc(sizeof Comp);
16     company->noDepts = 0;
17     return company;
18 }
19
20 /*
21 * adds a department to the given company.
22 *
23 * company : the company to add the department to
24 * department : the department to add to the company
25 */
26 void addDepartment Comp *company, Dept *department) {
27     company->departments[company->noDepts++] = department;
28 }
29 /*
30 * Finds a department in a company
31 *
32 * company : the company to search
33 * returns : the department
34 */
35 Dept *findDepartment Comp *company, char *deptCode) {
36     int counter = 0;
37
38     for (counter = 0; counter < company->noDepts; counter++) {
39         if (strcmp deptCode, company->departments[counter]->deptCode) == 0) {
40             return company->departments[counter];
41         }
42     }
43
44     return NULL;
45 }
46
```