

```
1  /**
2   * Search a phonebook for a name
3   */
4  #include <cs50.h>
5  #include <stdio.h>
6  #include <string.h>
7
8  typedef struct
9  {
10     string name;
11     string phone;
12 }
13 person;
14
15 int main(int argc, string argv[])
16 {
17     // Array of persons called students
18     person students[5];
19
20     students[0].name = "Will";
21     students[0].phone = "413-458-9582";
22
23     students[1].name = "Noah";
24     students[1].phone = "555-555-5551";
25
26     students[2].name = "Sam";
27     students[2].phone = "508-123-4567";
28
29     students[3].name = "Kate";
30     students[3].phone = "800-529-1010";
31
32     students[4].name = "Jude";
33     students[4].phone = "Not listed";
34
35     // Get name from user
36     string n = get_string("Name: ");
37
38     // Search for name n
39     for (int i = 0; i < 5; i++)
40     {
41         // If name n is in phonebook
42         if (strcmp(students[i].name, n) == 0)
```

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```
43     {
44         // Found
45         printf("Number: %s\n", students[i].phone);
46         return 0;
47     }
48 }
49
50 // Not found
51 printf("Not found\n");
52 return 1;
53
54 }
```