

```
1  /**
2   * Linear search for a phone number
3   */
4
5  #include <cs50.h>
6  #include <stdio.h>
7  #include <string.h>
8
9  int main(int argc, string argv[])
10 {
11     // An array of names
12     string name[] = {"Will", "Noah", "Sam", "Kate", "Jude"};
13
14     // An array of phone numbers
15     string phone[] = {"413-458-9582", "555-555-5551", "508-123-4567", "800-529-1010", "not listed"};
16
17     // Get name from user
18     string n = get_string("Name: ");
19
20     // Search for name n
21     for (int i = 0; i < 5; i++)
22     {
23         // If name n is in phonebook
24         if (strcmp(name[i], n) == 0)
25         {
26             // Found
27             printf("Number: %s\n", phone[i]);
28             return 0;
29         }
30     }
31
32     // Not found
33     printf("Not found\n");
34     return 1;
35
36 }
```