

ASSIGNMENT NO.1

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A)

```
#include <iostream>
```

```
#include <string>
```

```
using namespace std;
```

```
struct Contact {
```

```
    string name;
```

```
    string phoneNumber;
```

```
    string email;
```

```
};
```

```
// Linear search in array of contacts
```

```
int linearSearch(Contact phoneBook[], int size, const string& searchName) {
```

```
    for (int i = 0; i < size; i++) {
```

```
        if (phoneBook[i].name == searchName) {
```

```
            return i;
```

```
        }
```

```
    }
```

```
    return -1;
```

```
}
```

```
int main() {
```

```
    // Array of contacts, fixed size 3
```

```
    Contact phoneBook[3] = {
```

```
        {"Payal", "123-456-7890", "payal@example.com"},
```

```

        {"Geeta", "234-567-8901", "geeta@example.com"},
        {"Shruti", "345-678-9012", "shruti@example.com"}
    };

    string searchName;

    cout << "Enter the contact name (no spaces): ";
    cin >> searchName;


    int size = 3; // Number of contacts

    int index = linearSearch(phoneBook, size, searchName);

    if (index != -1) {
        cout << "\nContact Found:\n";
        cout << "Name: " << phoneBook[index].name << endl;
        cout << "Phone: " << phoneBook[index].phoneNumber << endl;
        cout << "Email: " << phoneBook[index].email << endl;
    } else {
        cout << "\nContact not found." << endl;
    }

    return 0;
}

```

OUTPUT:

```

Enter the contact name : Payal

Contact Found:
Name: Payal
Phone: 123-456-7890
Email: payal@example.com

```