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CSC 326
Professor Anderson
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CSC 326 Lab 1

```
#include <fstream>
#include <iostream>
#include <string>
#include <vector>

using namespace std;
class Bag {

private:

    string list;
    vector<string> arr;

public:

    Bag(string name) {
        this->list = name;
    }

    void bank(string item) {
        arr.push_back(item);
    }
    void display() {
        for (int i = 0; i < arr.size(); i++) {

            cout << arr[i] << endl;
        }
    }
    void look() {

        cout << "Bag: " << list << endl;
        for (int i = 0; i < arr.size(); i++) {
            cout << arr[i] << endl;
        }
    }
    void search() {
        string search;
        cout << " Search Word to Generate then Press Enter (Please start with capital word!!!): " << endl;
        cin >> search;
        cout << "....." << endl;

        vector<string>::iterator K;
        K = find_if(arr.begin(), arr.end(), [search](string item)
```

```

        {
            return item.find(search) == 0; });

    if (search.length() < 0) {
        look();
    }
    else {
if (K != arr.end())
    {
        if (search.length() == (*K).length()) {
            cout << *K << endl;
        }

        else {
            cout << *K << endl;

            K++;

            while (K != arr.end()) {
                if ((*K).find(search) == 0) {
                    cout << *K << endl;
                }
                K++;
            }
        }
    }
    else {
    }
}
};

int main() {

    Bag bag("");
    ifstream file_("Text.txt");
    if (!file_) {
        cout << "file not open";
    }
    string keyword;
    while (getline(file_, keyword)) {

        bag.bank(keyword);
    }
    bag.display();
    do {
        bag.search();
    } while (true);
    return 0;
}

```

Text.txt*

Basketball
Baseball
Boxing
Badminton
Golf
Tennis
Table Tennis
Running
Soccer
Volleyball

THE OUTPUT IS BELOW !!!

```
C:\Users\jihad\source\repos\midterm review\Debug\midterm review.exe
Soccer
Basketball
Baseball
Boxing
Badminton
Tennis
Table Tennis
Golf.
Running
Volleyball
Search Word to Generate then Press Enter (Please start with capital word!!!):
B
.....
Basketball
Baseball
Boxing
Badminton
Search Word to Generate then Press Enter (Please start with capital word!!!):
Ba
.....
Basketball
Baseball
Badminton
Search Word to Generate then Press Enter (Please start with capital word!!!):
Bas
.....
Basketball
Baseball
Search Word to Generate then Press Enter (Please start with capital word!!!):
Bask
.....
Basketball
Search Word to Generate then Press Enter (Please start with capital word!!!):
_
```

```
C:\Users\jihad\source\repos\midterm review\Debug\midterm review.exe
Soccer
Basketball
Baseball
Boxing
Badminton
Tennis
Table Tennis
Golf.
Running
Volleyball
Search Word to Generate then Press Enter (Please start with capital word!!!):
Basketball
.....
Basketball
Search Word to Generate then Press Enter (Please start with capital word!!!):
```

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