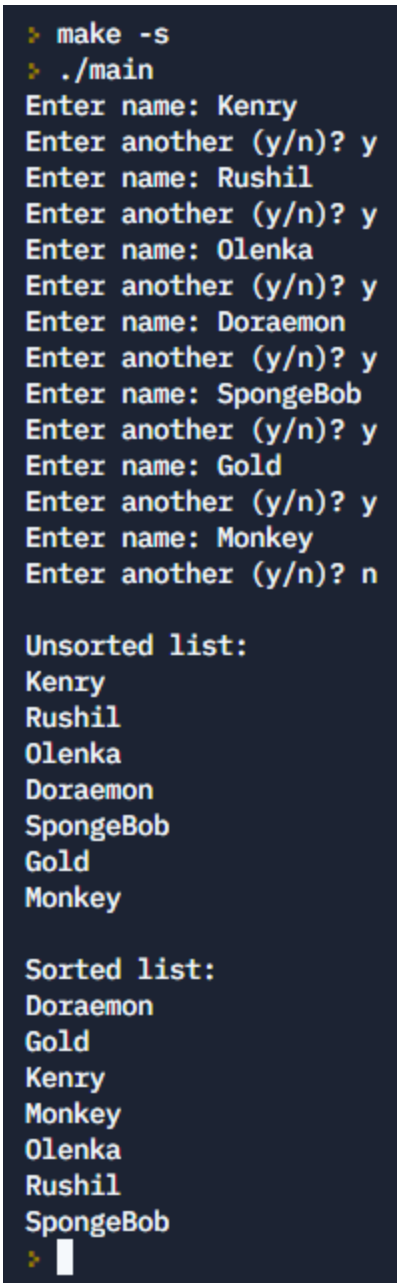

Main.cpp

```
// Kenry Yu, Olenka Bilinska, Rushil Prajapati
// Demo @ 5:10
// Week 8 Lab 2


#include "person.h"
#include <iostream>
```

```
using namespace std;

const int SIZE = 100;

void bsort(person *[], int);

int main() {
  person *persPtr[SIZE];
  int n = 0;
  char choice = '\0';
  do {
    persPtr[n] = new person;        // make new object
    persPtr[n]->setName();          // set person's names
    n++;                            // count new person
    cout << "Enter another (y/n)? "; // enter another
    cin >> choice;
  } while (choice != 'N' && choice != 'n');
  cout << "\nUnsorted list:" << endl;
  for (int i = 0; i < n; i++)
    persPtr[i]->printName();
  cout << "\nSorted list:" << endl;
  bsort(persPtr, n);
  for (int i = 0; i < n; i++)
    persPtr[i]->printName();
  return 0;
}

void bsort(person *names[], int size) {
  for (int i = 0; i < size - 1; i++)
```

```
    if (int(names[i]->getName()[0]) > int(names[i + 1]->getName()[0]))
      for (int j = i + 1; j > 0; j--) {
        if (int(names[j]->getName()[0]) < int(names[j - 1]->getName()[0])) {
          person *temp = names[j - 1];
          names[j - 1] = names[j];
          names[j] = temp;
        } else {
          break;
        }
      }
}
```

Person.h

```
#include <iostream>
#include <string> //for string class
using namespace std;
////////////////////////////////////////////////////////////
class person // class of persons
{
protected:
  string name; // person's name
public:
  void setName() // set the name
  {
    cout << "Enter name: ";
    cin >> name;
  }
  void printName() // display the name
  {
    cout << name << endl;
  }
  string getName() // return the name
  {
    return name;
  }
};
////////////////////////////////////////////////////////////
```