```int main() {
    DataReader dataReader("pokemons.txt");```

[main.cpp]

```
Abra / 2'11" / 43 lbs / psychic / Arbok, Charmander
Pikachu / 1'4" / 10 lbs / electoric / Para, Clefairy
Arbok / 11'6" / 143 lbs / poison / Butterfree, Charmander
Bulbasaur / 2'4" / 15 lbs / grass / Clefairy, Pikachu
Butterfree / 3'7" / 70 lbs / bug / Pikachu, Arbok, Charmander
Charmander / 2'0" / 19 lbs / fire / Butterfree, Squirtle
Squirtle / 1'8" / 20 lbs / water / Diglett, Abra
Diglett / 8" / 1.8 lbs / ground / Abra, Caterpie, Pikachu
Caterpie / 1'0" / 6.4 lbs / bug / Butterfree, Charmander, Abra, Caterpie, Pikachu
Clefairy / 2'0" / 200 lbs / fairy / Caterpie, Pikachu, Diglett, Clefairy
Para / 1'0" / 100 lbs / bug / Clefairy, Pikachu, Abra, Para, Charmander
Poliwag / 2'0" / 27 lbs / water / Charmander
Psyduck / 2'7" / 43 lbs / water / Abra, Caterpie, Butterfree, Diglett
```

```void DataReader::separateCategories(std::string& line) {
    std::string temp = "";
    int index = 0;

    filterName(line, index);
    filterHeight(line, index);
    filterWeight(line, index);
    filterType(line, index);
    filterFriend(line, index);
}```

```void DataReader::readFile(std::string inputFile) {
    std::string line = "";
    std::ifstream file(inputFile);
    if(file.is_open()) {
        while(getline(file, line)) {
            if(line.size() > 1 && line[0] != '/' && line[1] != '/'){
                separateCategories(line);
            }
        }
    file.close();
    }
}```

```private:
    std::vector<std::string> names;
    std::vector<std::string> heights;
    std::vector<std::string> weights;
    std::vector<std::string> types;
    std::vector< std::vector<std::string> > friendsVectors;```

[ dataReader.hpp]

```    PokeDex myDex(dataReader.getNames(),
                  dataReader.getHeights(),
                  dataReader.getWeights(),
                  dataReader.getTypes(),
                  dataReader.getFriends());
    Pokemon pikachu = myDex.getPokemonOf(1);```

[main.cpp]

```PokeDex::PokeDex(std::vector<std::string> inputNames,
                  std::vector<std::string> inputHeights,
                  std::vector<std::string> inputWeights,
                  std::vector<std::string> inputTypes,
                  std::vector< std::vector<std::string> > inputFriendsVectors) {
    names = inputNames;
    heights = inputHeights;
    weights = inputWeights;
    types = inputTypes;
    friendsVectors = inputFriendsVectors;
}```

[pokeDex.cpp]

```    Pokemon pikachu = myDex.getPokemonOf(1);```

[main.cpp]

```Pokemon PokeDex::getPokemonOf(int inputNumber) {
    Pokemon tempPokemon(names[inputNumber],
                        heights[inputNumber],
                        weights[inputNumber],
                        types[inputNumber],
                        friendsVectors[inputNumber]);

    return tempPokemon;
}```

[pokeDex.cpp]

```Pokemon::Pokemon(std::string name,
                 std::string height,
                 std::string weight,
                 std::string type,
                 std::vector<std::string> friends) {
    this -> name = name;
    this -> height = height;
    this -> weight = weight;
    this -> type = type;
    this -> friends = friends;
}```

[pokemon.cpp]

```pikachu.info();```

[main.cpp]

```void Pokemon::info() {
    std::cout << "---------"<< name << correction2Of(name) << std::endl;
    std::cout << "| Height  : " << height << correction1Of(height) << " |" << std::endl;
    std::cout << "| Weight  : " << weight << correction1Of(weight) << " |" << std::endl;
    std::cout << "| Type    : " << type << correction1Of(type) << " |" << std::endl;
    std::cout << "| Friends : " << friends.size() << correction1Of("1") << " |" << std::endl;
    std::cout << "----------------------"<< std::endl;
}```

[pokemon.cpp]

```---------Pikachu------
| Height : 1'4" |
| Weight : 10 lbs |
| Type   : electoric |
| Friends : 2 |

```
```