PRO192 - Lab09

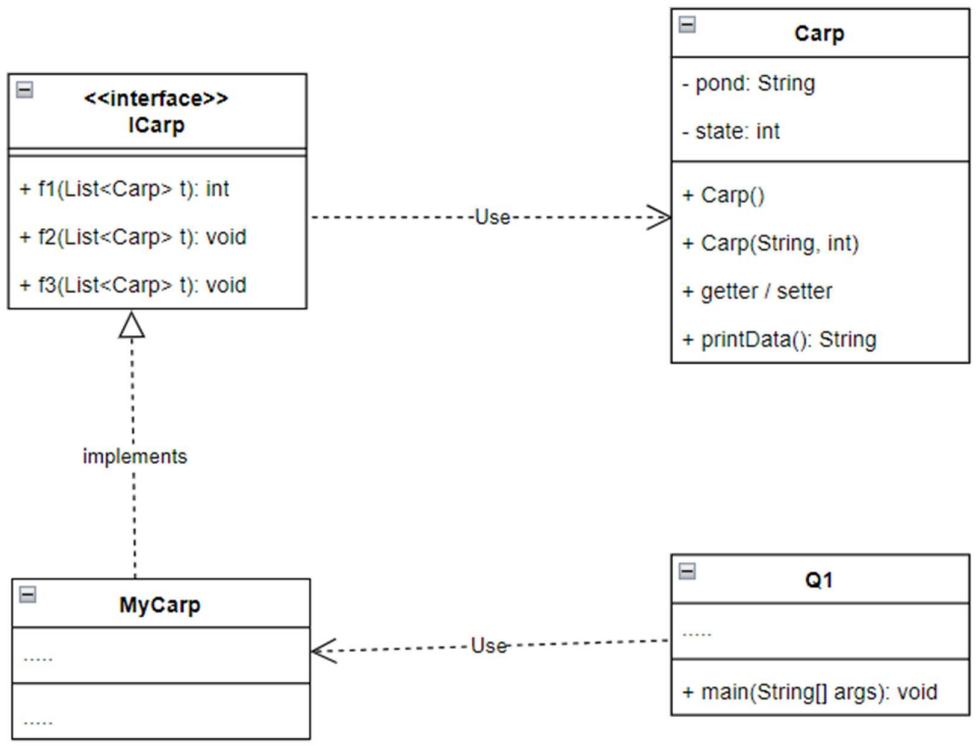
Tên project: Q1 và tạo thư mục nộp bài theo yêu cầu

```
solution.zip          // 5. Nén thư mục run & src, đặt tên solution.zip
    ├── run               // 4. Tạo thư mục run chứa file .jar
    │   └── Q1.jar        // File jar đã đóng gói (Clean and Build)
    └── src               // 3. Tạo thư mục src chứa Q1.zip
        └── Q1.zip        // 2. Nén dự án Q1 tạo ra từ NetBeans
            ├── build     // 1. Các file trong dự án NetBeans
            ├── dist
            ├── nbproject
            ├── src
            ├── test
            ├── build.xml
            └── manifest.mf
```

Nén thư mục nộp bài và submit lên LMS (Labs/Lab09)

Deadline: Follow on EduNext

Create 1 interface and 3 classes as below:



1. Class **Carp**

2. Interface **ICarp**
3. Class **MyCarp** implements ICarp
    - F1(…): Suppose all ponds contain at least 2 characters, Count and return number of carps with pond having 2nd character is a digit.
    - F2(…): Find the first element whose pond is palindrom string, then change its state to 99 (the string is called palindrom if it is the same as its reverse)
    - F3(…): Suppose the list t contains at least 5 elements. Sort the first 5 elements of the list t ascendingly by state.
    - printData(): return a string **(pond,state)**

4. Class **Q1**

• The first line contains a positive integer **T** ($1 \leq T \leq 100$) which is the number of test case.
• The next **T** line contains:
1. `Carp pond state`, when the line start with a string "`Carp`", the program will add new Cala to ArrayList (list).
2. `Print`, when the line contains only a string "`Print`", the program will print out information of all Calas as the sample.
3. `F1`, when the line contains only a string "`F1`", the program will call F1() method and print out result as the sample.
4. `F2`, when the line contains only a string "`F2`", the program will call F2() method and print out information of all Calas as the sample.
2. `F3`, when the line contains only a string "`F3`", the program will call F3() method and print out information of all Calas as the sample.

Sample Input 1	
input	***output***
4 Print F1 F2 F3	---Print--- Empty ---F1--- 0 ---F2--- Empty ---F3--- Empty

Sample Input 2	
input	***output***
12 Carp AC 9 Carp B9B 2 Carp C7 8 Carp D3D 2 Carp EG 7 Carp F5F 6 Carp G4 5 Carp H3 4 Print F1 F2 F3	---Print--- (AC,9),(B9B,2),(C7,8),(D3D,2),(EG,7),(F5F,6),(G4,5),(H3,4) ---F1--- 6 ---F2--- Before Updating: (AC,9),(B9B,2),(C7,8),(D3D,2),(EG,7),(F5F,6),(G4,5),(H3,4) After Updating: (AC,9),(B9B,99),(C7,8),(D3D,2),(EG,7),(F5F,6),(G4,5),(H3,4) ---F3--- Before Sorting: (AC,9),(B9B,99),(C7,8),(D3D,2),(EG,7),(F5F,6),(G4,5),(H3,4) After Sorting: (D3D,2),(EG,7),(C7,8),(AC,9),(B9B,99),(F5F,6),(G4,5),(H3,4)