

CS62: Fall 2025 | Lecture #1 (Intro) worksheet | Prof. Li

Practice problem 1

- a. Fill in the blanks below.

```
public class SmallerDemo {  
    public static ____ smaller(____ x, ____ y) {  
        if (x < y) {  
            return x;  
        }  
        return y;  
    }  
    public static void ____ (String[] args) {  
        //create a variable for your age  
  
        //create a variable for a family member's age  
  
        //print which one is smaller  
  
    }  
}
```

- b. When you save this file, what is its filename?
- c. What happens if you call `smaller("fish", "cat")`?
- d. How could you change this code so `smaller(3.14, 19.99)` would work? (Hint: it's all in one line of code)

Practice problem 2

a. Define a class Cat and declare variables that correspond to a cat's name, sex, age, days spent in rescue, and whether it has been adopted.

```
public class Cat { //part a here
```

```
    public Cat(                                ) { //part b: constructor
```

```
    }
```

```
    public static void main(String[] args) { //part b: making objects
```

```
    }
```

```
}
```

b. Fill in the Cat constructor to take 3 arguments: name, age, and sex.

In the main method, instantiate two objects of type Cat. Initialize their name, age, and sex to whatever you choose.

Once you instantiate the two Cat objects, initialize their days in rescue to whatever number you want.

Finally, adopt a cat!