

Monday, September 18, 2023 11:48 AM

Name

Brief explanation of assignment

Don't need date. Don't need to see teacher name.

Default constructor's typical job is to instantiate the member variables.

```
Daycare d = new Daycare();  
d.add("-", "-", "-", 5);
```

its own functions.

objects between

main

dog constructor

dog

dog

name

breed

age

close out once and is all done

add dogs

12

16

9

5

4

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Dog
Fragible thing
-sergeants, constructors

Cannot read from file or ask for input in constructor / `main` classes.

Daycare
Container
- constructors, add, remove, modify, find, size, get

When defining these classes, always define the bare minimum methods, even if they are not used.

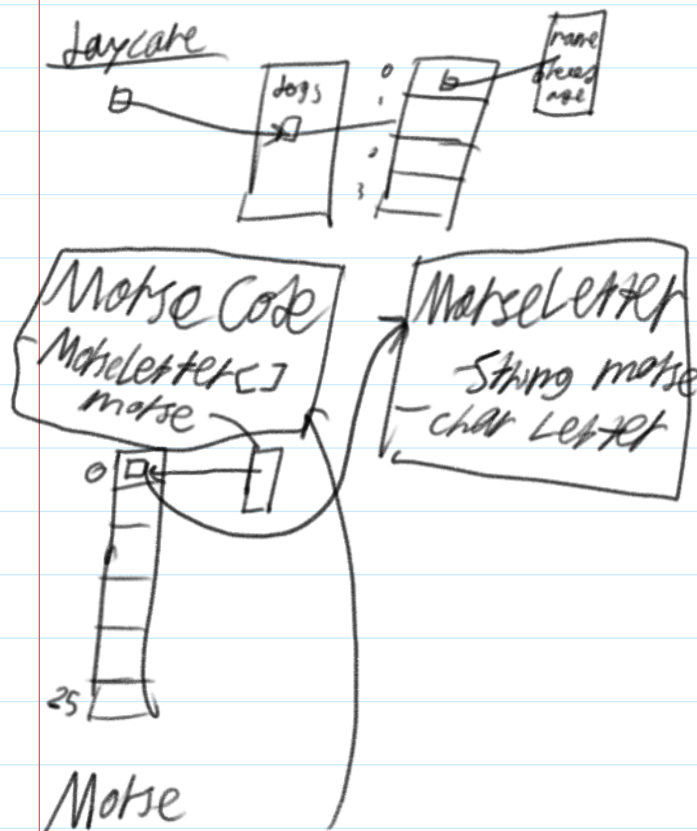
Name,	Homework #,	Brief description of header.
-------	-------------	------------------------------

Main is for some reason automatically named after the project once the project is created (even though my HW2 didn't do that), and that class will be the class that does all of the input and output.

Containers can have member variables that aren't containers.

For tangible things, get returns the data value.

For containers, get returns the index. The function "find" returns the value instead.



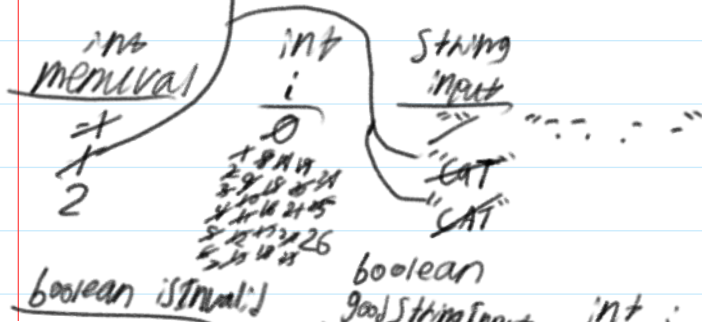
All methods defined in Main should be static.

Morse

```
MorseCode morseCode = new MorseCode()
```

```
Scanner Infile = new Scanner(new File("data.txt"))
```

```
Scanner scIn = new Scanner(System.in)
```



^{8 15 25 26}
boolean isTrue()
 False
 True
 False

boolean goodStringInput
 False
 True

int j
 0
 +
 0
 +
 2
 3

String moseList[4]

int index (mose)
 2019

int index (alphabet)
 2019

This is the output produced by ChatGPT:

```

public class CountRanges {
    public static void main(String[] args) {
        int[] inputArray = {5, 15, 25, 35, 8, 18, 28, 9, 19, 29, 40, 45};
        int[] resultArray = countValuesInRanges(inputArray);

        for (int i = 0; i < resultArray.length; i++) {
            System.out.println("Slot " + i + ": " + resultArray[i]);
        }
    }

    public static int[] countValuesInRanges(int[] inputArray) {
        int[] resultArray = new int[4];

        for (int value : inputArray) {
            if (value >= 0 && value <= 10) {
                resultArray[0]++;
            } else if (value >= 11 && value <= 20) {
                resultArray[1]++;
            } else if (value >= 21 && value <= 30) {
                resultArray[2]++;
            } else {
                resultArray[3]++;
            }
        }

        return resultArray;
    }
}
  
```

inputArray

inputArray

resultArray

resultArray

value
 0 5 15 25 35

i
 0 1 2 3

$$\begin{array}{r} \text{value} \\ 05182838 \\ 81828919 \\ 292045 \end{array}$$

$$\begin{array}{r} 1 \\ 0123 \\ 4 \end{array}$$

```

import java.io.IOException;
import java.util.Scanner;
import java.io.File;

```

```

public class MorseE

```

```

    public static void main(String[] args) throws IOException {
        Scanner Infile = new Scanner(new File("data.txt"));
        Scanner scrt = new Scanner(System.in);
        MorseCode morse = new MorseCode();
        int menuVal = 1;

```

```

        sout("1: Alpha to Morse");
        sout("2: Morse to Alpha");
        sout("3: Exit");
        menuVal = scrt.nextInt();

```

```

        while (menuVal != 3) {
            if (menuVal == 1) {
                //convert

```

```

            }
            elif (menuVal == 2) {
                //convert

```

```

            }
            elif (menuVal < 1 || menuVal > 3) {
                sout("Bad input");

```

```
if (menuVal < 1 || menuVal > 3)
```

```
    cout << "Bad Input";
```

```
    }
```

```
    menuVal = getch();
```

```
    }
```

```
    }
```

```
}
```