

Philip Pesic

Week 12

April 9 2023

Week 12 Prog 7

Create two arrays of strings called: ForwardNames, BackwardNames.

Initialize forwardOrderNames with: “Fred”, “Tuyet”, “Annie”, “Moe”, “Ria”, “Luke”, “Jim”, “May”, ”Rex”, ”Omar”.

Use two ‘for’ loops, to copy each element in the forwardOrderNames array into the reverse order reverseOrderNames array in reverse order ...

Print out the names in the forwardOrderNames array. 0 to 9 index show order listed above

Print out the names in the reverseOrderNames array. 0 to 9 index show reverse order listed above

```
package Prog7;

class prog7 {
    public static void main(String[] args) {
        String[] forwardOrderNames = {"Fred", "Tuyet", "Annie", "Moe", "Ria", "Luke",
"Jim", "May", "Rex", "Omar"};
        String[] reverseOrderNames = new String[forwardOrderNames.length];

        for(int i = forwardOrderNames.length-1, j=0; i >= 0; i--, j++){
            reverseOrderNames[j] = forwardOrderNames[i];
        }

        System.out.print("Forward Names: ");
        for (String name : forwardOrderNames) {
            System.out.print(name + " ");
        }

        System.out.print("\nReverse Names: ");
        for (String name : reverseOrderNames) {
            System.out.print(name + " ");
        }

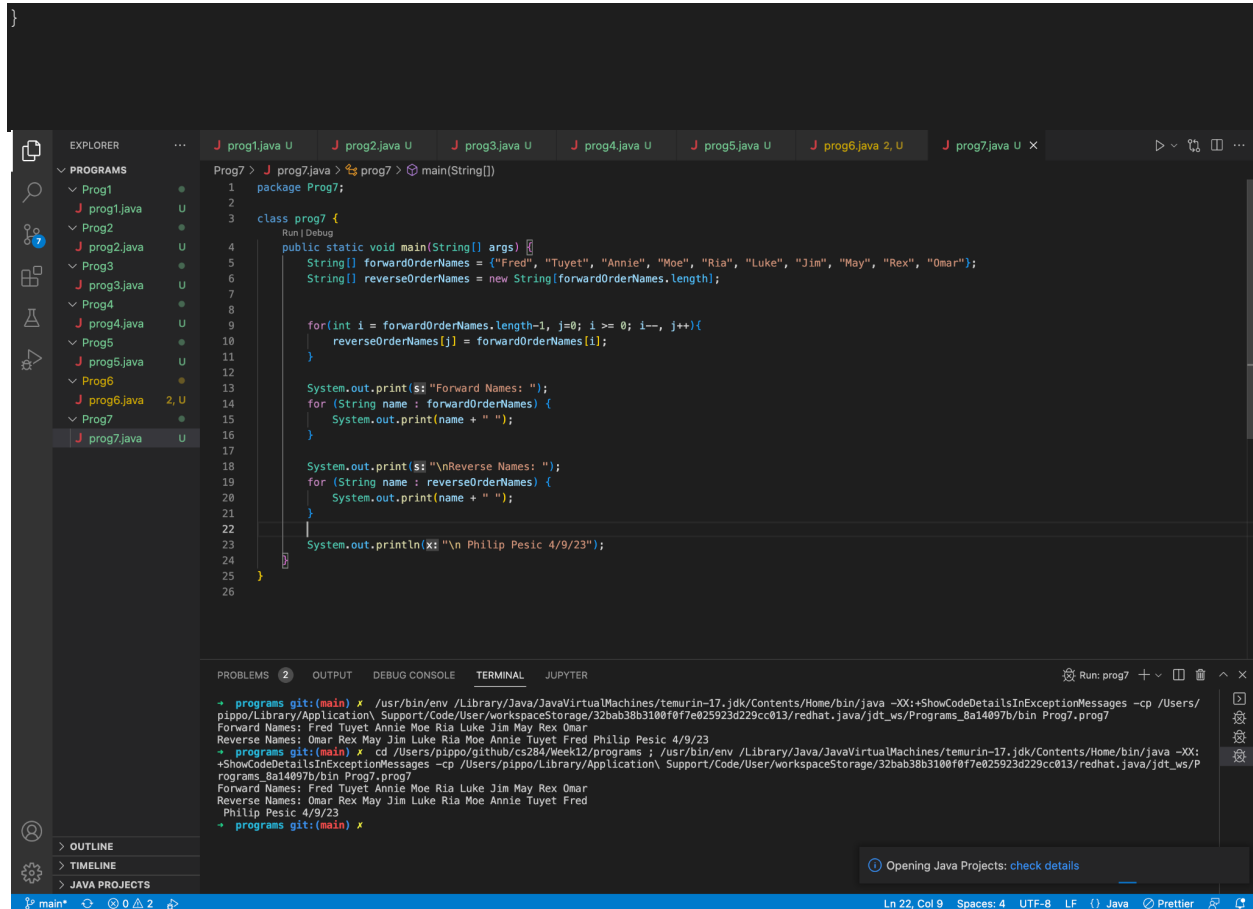
        System.out.println("\n Philip Pesic 4/9/23");
    }
}
```

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The screenshot shows an IDE with a Java project named 'Prog7'. The main file, 'prog7.java', contains the following code:

```
1 package Prog7;
2
3 class prog7 {
4     public static void main(String[] args) {
5         String[] forwardOrderNames = {"Fred", "Tuyet", "Annie", "Moe", "Ria", "Luke", "Jim", "May", "Rex", "Omar"};
6         String[] reverseOrderNames = new String[forwardOrderNames.length];
7
8         for(int i = forwardOrderNames.length-1, j=0; i >= 0; i--, j++){
9             reverseOrderNames[j] = forwardOrderNames[i];
10        }
11
12        System.out.print("${ "Forward Names: "};
13        for (String name : forwardOrderNames) {
14            System.out.print(name + " ");
15        }
16
17        System.out.print("${ "\nReverse Names: "};
18        for (String name : reverseOrderNames) {
19            System.out.print(name + " ");
20        }
21
22        System.out.println("${ "\n Philip Pesic 4/9/23"};
23    }
24 }
25
26 }
```

The terminal output shows the execution of the program:

```
+ programs git:(main) * /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pippo/Library/Application\ Support/Code/User/workspaceStorage/32bab38b3100f07e025923d229cc013/redhat.java/jdt_ws/Programs_Ba14097b/bin Prog7.prog7
Forward Names: Fred Tuyet Annie Moe Ria Luke Jim May Rex Omar
Reverse Names: Omar Rex May Jim Luke Ria Moe Annie Tuyet Fred Philip Pesic 4/9/23
+ programs git:(main) * cd /Users/pippo/github/cs284/Week12/programs ; /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pippo/Library/Application\ Support/Code/User/workspaceStorage/32bab38b3100f07e025923d229cc013/redhat.java/jdt_ws/P
programs_Ba14097b/bin Prog7.prog7
Forward Names: Fred Tuyet Annie Moe Ria Luke Jim May Rex Omar
Reverse Names: Omar Rex May Jim Luke Ria Moe Annie Tuyet Fred
Philip Pesic 4/9/23
+ programs git:(main) *
```

I learned how to swap array elements