

Solve the following problems. If necessary, include code, images, or scanned drawings to support your answer. Submit your solutions as a pdf. Attach Java source files as needed.

Question:	1	2	3	4	5	Total
Points:	100	100	100	100	100	500
Score:						

Week 7 Exercises

1. (100 points) This code works, but it isn't optimal to read.
(As you might be able to tell since it spills onto the next page)
Revise this code to be a single if-elseif-else chain.

```

1      import java.util.Scanner;
2      public class Week7Problem1 {
3          public static void main(String[] args){
4              Scanner scan = new Scanner();
5              System.out.println("Enter an age: ");
6              int age = scan.nextInt();
7              if (age < 3 && age >= 0){
8                  System.out.println("Baby");
9              }
10             else{
11                 if (age < 5 && age >= 3) {
12                     System.out.println("Toddler");
13                 }
14                 else {
15                     if (age < 12 && age >= 5){
16                         System.out.println("Child");
17                     }
18                     else {
19                         if (age < 18 && age >= 12 ){
20                             System.out.println("Teen");
21                         }
22                         else {
23                             if (age >= 18) {
24                                 System.out.println("Adult");
25                             }
26                             else {
27                                 System.out.println("Not a Valid Age!")

```

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```

    }
    }
    }
    }
    }
    }
    }

import java.util.Scanner;
public class Week7Problem1 {
    public static void main(String[] args) {
        Scanner scan = new Scanner();
        System.out.println("Enter an age: ");
        int age = scan.nextInt();
        if (age >= 18 {
            System.out.println("Adult"); }
        else if (age >= 12) {
            System.out.println("teen"); }
        else if (age >= 5) {
            System.out.println("child"); }
        else if (age >= 3) {
            System.out.println("Toddler"); }
        else if (age >= 0) {
            System.out.println("Baby"); }
        else {
            System.out.println("Not a valid age"); }
    }
}

```