AP Computer Science A
Ticket Out the Door
Set 21: Passing by reference and by value

Name _____ Period _____

Skill 21.1: Exercise 1
Consider the following code,

```
int a = 3;
int b = a;
b = 100;

int[] c = {1, 2, 3, 4};
int[] d = c;
d[1] = 99;
d = new int[5]

int[] e = {5, 6, 7, 8};
int[] f = {5, 6, 7, 8};

f[1] = 98;
e = f;

String g = "hello";
String h = g;
h = "goodbye";
```
|
| (a) What values are stored in d after the above code is executed? |
| (b) What values are stored in c after the above code is executed? |
| (c) What is the value of b after the above code is executed? |

Name _____ Period _____

Skill 21.2: Exercise 1

Refer to the code below to answer the following,

```java
public class Tester
{
    public static void main(String args[ ])
    {
        int s[ ] = {1, 2, 3, 4, 5, 6};

        for(int g = 0; g < s.length; g++)
            System.out.print(s[s] + " ");
        System.out.print("\n");

        testMethod(s);

        for(int g = 0; g < s.length; g++)
            System.out.print(s[g] + " ");
    }

    public static void testMethod(int pp[ ])
    {
        int len = pp.length;
        int t2[ ] = new int[len];

        for(int j = 0; j < len; j++)
            t2[j] = pp[len − j − 1];

        for(int k = 0; k < t2.length; k++)
            System.out.print(t2[k] + " ");

        System.out.print("\n");
        pp = t2;
    }
}
```

Complete the stack and heap diagram, then indicate the output that would be printed

Stack	Heap	Output

AP Computer Science A
Ticket Out the Door
Set 21: Passing by reference and by value

Name _____ Period _____