

is this on website?

allow them this prior to actual quiz?

where is 5.2 quiz, need 76 copies



Name KEY
5.1 quiz practice quiz

```

public class Tester{
    public void testing(int[] a){
        int temp = a[0];
        a[0] = a[1];
        a[1] = temp;
    }
}

```

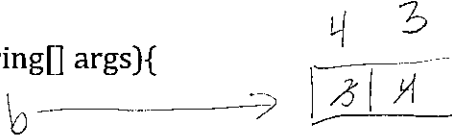
temp = 3



```

public class testMain{
    public static void main(String[] args){
        int[] b = new int[2];
        b[0] = 3;
        b[1] = 4;
        Tester test = new Tester();
        test.testing(b);
        int x = b[0], int y = b[1];
    }
}

```



x = 4 y = 3

What is contained in x,y and temp respectively after the last line in main?

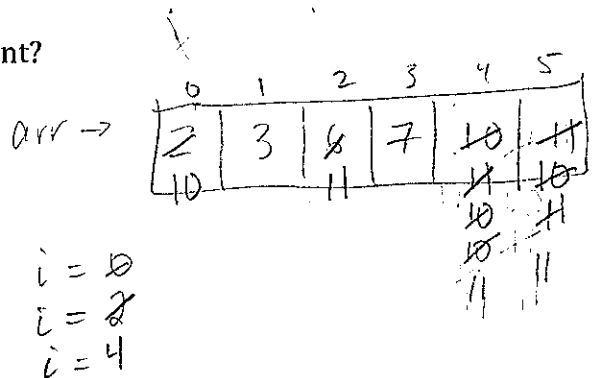
- a) 3, 4, 3
- b) 4, 3, undefined**
- c) 3, 4, 4
- d) 4, 3, 3
- e) 3, 4, undefined

2) What is printed at the end of this code segment?

```

int[] arr = {2, 3, 6, 7, 10, 11};
for(int i = 0; i < arr.length-1; i+=2){
    arr[i] = arr[4];
    arr[4] = arr[5];
    arr[5] = arr[i];
}
for(int i = 0; i < arr.length; i++){
    System.out.print(arr[i]+" ");
}

```

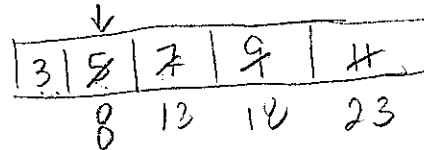


- a) 10 11 10 11 11 11
- b) 10 11 10 11 10 11
- c) 2 3 10 11 6 7
- d) 11 10 3 6 11 11
- e) 10 3 11 7 11 11**

10, 3, 11, 7, 11, 11

3) What is printed after execution?

```
int[] b = new int[5];
for(int i = 0; i < b.length; i++){
    b[i] = i*2+3;
}
for(int i = 1; i < b.length; i++){
    b[i] = b[i-1] + b.length;
    System.out.print(b[i] + " ");
}
```



- a) 3 3 3 3 **d) 8 13 18 23**
b) 8 8 8 8 e) 13 18 23 28
c) 5 7 9 11

4) Which of the following constructors of methods will not cause a syntax error?
Instances variables are age & hasMilk.

I. `public Cow(){
 age = 10;
 hasMilk = true;}`

II. `public void milkCow(){
 hasMilk = false;}`

III. `public static void killCow(){
 age = 0;
 hasMilk = false;}` *error*

- a) I, II and III b) III only
c) I and III only **e) I and II only**
e) I only

5. given this code, select the True statement:

```
public class Runner{
    public static void main( String [] args ){
        int [] c = { 7, 6, 5 };
        met( c ); }

    private static void met( int[] a ){
        System.out.println( a[ a.length ] );
    } }
```

- a) This code will not compile. The error will be: `ArrayIndexOutOfBoundsException`
b) This code will compile but if you try to run it, the following run-time exception will occur: `ArrayIndexOutOfBoundsException`
c) This code will compile and run. It will display a zero.

6. Given this code, select the best answer:

```
public class Runner {  
    public static void main( String [] args ) {  
        int [] c={1,2,3,4,5,6,7,8};  
        int n=(int)(8*Math.random()+1);    1 → 8  
        met( c, n ); }  
    private static void met( int[] a, int n ) {  
        for (int i=0; i<a.length;i++) {  
            if (a[i]==5 || a[i]==6)  
                a[i]=n;    will replace  
        }  
    }  
}
```

a) nothing in array c has changed because java is pass by value.

b) two elements of array c have changed because arrays are mutable.

c) position 5 and 6 in array c have been changed

d) indexOutOfBoundsException occurs.

11) Create a String array called myFarm with 6 different animals. For each animal, print a line with the animal followed by its length. For example: pig 3
Write a loop to determine which animal has the maximum length. Print out the winning animal and its length after the loop.

```
String[] myFarm = { "pig", "chicken", "cow",  
                    "lamb", "duck", "horse" }  
int max = 0;  
for (int i = 0; i < myFarm.length; i++) {  
    s.o.p ( myFarm[i] + " " + myFarm[i].length());  
    if ( myFarm[i].length() > myFarm[max].length())  
        max = i;  
}  
s.o.p (" The longest name is " + myFarm[max]  
      + " " + myFarm.length());
```

12. Given the class Gamer, follow instructions below:

```
public class Gamer {
    private static int ptsToWin;
    private String name;
    private int pts;

    public Gamer(Strings) {
        name = s;
        pts=0;
    } //end constructor

    public static void setGoal(int n) {
        ptsToWin=n;
    } //end setGoal

    public void addPts() {
        pts+=(int)(8*Math.random());
    } //end addPts

    public boolean beat(Gamer g) {
        if (pts>=g.pts )
            return true;
        else
            return false;
    } //end won

    public String toString() {
        return name + " has "+pts;
    } //end toString
}
```

Instantiate an array of 6 Gamer objects and make sure each object gets random amounts of points (by calling addPts() twice for each object) . Using another loop find out which Gamer has the most points.

```
Gamer g[] = new Gamer[6];
for (int i = 0; i < g.length; i++) {
    g[i] = new Gamer("name");
    g[i].addPts();
    g[i].addPts();
}
Gamer win = g[0];
for (int i = 0; i < g.length; i++) {
    if (g[i].beat(win))
        win = g[i];
}
S.o.p ("the winner: " + win);
```

