Written Final2

QUESTION #1 Write "CORRECT" on same line after the correct answer in the list below

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int arr[];

1.a) allocates space for 50 ints by default - will resize automatically

1.b) allocates just a pointer variable - no data storage allocated.

1.c) syntax error - you have to put a number in those []s

1.d) allocates an array whose length is 0;

QUESTION #2 Write "CORRECT" on same line after the correct answer in the list below

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int arr[][] = new int[5][7];

2.a) allocates an array of 5 integers

2.b) allocates an array of 5 pointers by 7 pointers

2.c) allocates a 2 D array of ints. 5 rows by 7 cols

2.d) syntax error: needs both []s to have a number in there

QUESTION #3 Write "CORRECT" on same line after the correct answer in the list below

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public static void main( String args[] )

{

int arr[] = null;

dimensionArray( arr );

fillArray( arr );

printArray( arr );

}

private static void dimensionArray( int a[] )

{

a = new int[5];

}

private static void fillArray( int a[] )

{

for (int i=0 ; i<a.length ; ++i )

a[i] = i\*2;

}

private static void printArray( int a[] )

{

for (int i=0 ; i<a.length ; ++i )

System.out.print( a[i] + " " );

System.out.println();

}

3.a) outputs: 0 2 4 6 8

3.b) crashes in dimensionArray

3.c) crashes in fillArray

3.d) crashes in printArray

QUESTION #4 Write "CORRECT" on same line after the correct answer in the list below

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int arr1[] = new int[5];

int arr2[] = new int[5];

for (int i=0 ; i<5 ;++i)

arr1[i] = i\*2;

arr2 = arr1;

4.a) arr2 is a shallow copy (contains same address as arr1)

4.b) arr2 is a deep copy (element for element) of arr1

4.c) arr2 contains the number 0 since arr1 is really arr1[0]

4.d) Exception thrown: you cannot copy one array reference into another reference

QUESTION #9 Explain the difference between DEEP and SHALLOW copy

DEEP: copies the data to a separate location

SHALLOW: only makes a copy of the reference to (address of) the data