

## Chapter 9 CRT

1. What index value does the third element of an array have?

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2. Write the declaration for an array named quantities that stores 20 integers .

```
int[] quantities;  
quantities = new int[20];
```

3. Write a declaration for an array named heights storing the numbers 1.65, 2.15, and 4.95.

```
double[] heights = {1.65, 2.15, 4.95}
```

4. Write a for-each statement that displays the integer values stored in an array named grades.

```
for (int element: grades) {  
    System.out.println(element);  
}
```

6. How does passing an entire array to a method differ from passing a single element of the array?

Passing an entire array passes all data within the array, whereas passing a single element only sends a single element of data.

7. Why are offset array indexes required in some cases?

8. What output is displayed by the statements below?

```
String name = "Elaine"  
System.out.println(name.charAt(3));
```

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