

Chapter 9 CRT

Youdis

1. Will have the index value of 2 since the first element has an index of 0.
2. The declaration would be `int[] quantities = new int[20];` this will store 20 elements.
3. `double[] heights = {1.65, 2.15, 4.95};`
4.

```
for (int grade : grades) {  
    System.out.println(grade);  
}
```
- 5.
6. When passing an array to a method it passes a copy of the reference so the method has access to the array's actual location in memory so it can change the original array. If passing only an element the method will just copy the value so all the changes made in the method will not affect the original array element.
7. Offsets are sometimes required when using variables to access a specific index of an array. Since the variable's value most likely won't correspond to the value they want since the index of an array starts at 0 not 1. This is when offsets come to change the variable value so it corresponds to the correct value when used to index something from an array.
8. Will display the letter i from the string variable "Elaine", since the method `charAt(int index)` uses the index values of a normal array the index value of E the starting letter would be zero therefore making i the fourth letter have the index value of 3.