

Intro to Java Practice Quiz #5

On paper, closed computer, notes, and books

In the space below, write code to complete the Java method whose signature is shown. The method takes one argument, an array of any number of integers, and returns a new array of integers of the same length where each number in the new array is five less than the corresponding number in the original array. The method should not print anything or get any user input, and it should not modify the original array.

For example, if the original array consists of {55, -12, 41, 0, 899}, then the new (returned) array should consist of {50, -17, 36, -5, 894}. Or, for example, if the original array contains {32, -8}, then the returned array should be {27, -13}. Remember that these are just examples, and your code needs to work with an array of any number of integers.

Note that you are writing only a single Java method. You are not writing a complete Java class or even a 'main' method. You should not have any import statements or use global variables. You do not need to comment your code. Assume that any needed imports have already been loaded.

```
public static int[] subtractFive(int[] list)
{
```

```
}
```