

Quik Maths

[Here is a video walkthrough of the solutions for this problem.](#)

What would the contents of the array be after being run through these functions in the main method? (Fall '16, MT1)

```
1 public class QuikMaths {
2     public static void mulitplyBy3(int[] A) {
3         for (int x: A) {
4             x = x * 3;
5         }
6     }
7
8     public static void multiplyBy2(int[] A) {
9         int[] B = A;
10        for (int i = 0; i < B.length; i+= 1) {
11            B[i] *= 2;
12        }
13    }
14
15    public static void swap(int A, int B ) {
16        int temp = B;
17        B = A;
18        A = temp;
19    }
20    public static void main(String[] args) {
21        int[] arr;
22        arr = new int[]{2, 3, 3, 4};
23        multiplyBy3(arr);
24
25        /* Value of arr: {_____} */
26
27        arr = new int[]{2, 3, 3, 4};
28        multiplyBy2(arr);
29
30        /* Value of arr: {_____} */
31
32        int a = 6;
33        int b = 7;
34        swap(a, b);
35
36        /* Value of a: _____ Value of b: _____ */
37    }
38 }
```

Solution:

line 26: /* Value of arr: {2, 3, 3, 4} */

```
line 31: /* Value of arr: {4, 6, 6, 8} */  
line 37: /* Value of a: 6 Value of b: 7 */
```