

Java  
Enhanced For Loop Worksheet #1

Name -  
Period -

Translate the following enhanced for loops into traditional for loops.

1.

```
int sum = 0;
for (int elem: arr)
{
    sum += elem;
}
```

2.

```
int[][] arr2D = {{1, 2, 3},
                 {4, 5, 6}};
int[] arr1D = new int[2];
int rowNum = 0;
for (int[] row : arr2D)
{
    arr1D[rowNum] = row[0];
    rowNum++;
}
```

3.

```
ArrayList<String> names = new ArrayList<String>();
names.add("Alice"); names.add("Bob"); names.add("Carly");
int sum = 0;
for (String name : names)
{
    sum += name.length();
}
```

Translate the following traditional for loops into enhanced for loops.

4.

```
int[] numbers = {32, 17, 44, 1};
for (int i = 0; i < numbers.length; i++)
    if (numbers[i] % 2 == 0)
        posOfLastEven = i;
```

5.

```
int[][] scores = {{77, 78, 81}, {80, 85, 82}};
int min = scores[0][0];
for (int row = 0; row < scores.length; row++)
    for (int col = 0; col < scores[row].length; col++)
        if (scores[row][col] < min)
            min = scores[row][col];
```