

Program 9

Arrays

Name: _____ Time spent: _____ min

Create a library of 1-d array functions. Each function should use the **size of the array** and the **array** as parameters. There may be **additional parameters** required depending on the function. 100 pts

Create a test program to validate each function

```
print_ary()
```

```
copy_ary()
```

```
sum_ary()      // sum all elements
```

```
scale_ary()    // float scale factor – each element multiplied by scale value
```

```
reverse_ary() // reverse the order of the elements
```

```
rotate_ary()   // rotate the elements (l/r) by N places
```

```
// 1 2 3 4 rotated L by 1 → 2 3 4 1
```

Provide **flow diagram**, **code**, and **results** to prove each function