

# CIS 1.5 Fall 2009 Lab IV.1

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These exercises practice some of the things we have just covered in class, and also show you some of the common ways we use arrays.

## 1. A first array

Define an array of six `integers`.

Initialise the members of the array.

Use a `for` loop to step through the array, and add the members of the array up.

Calculate the average of the numbers in the array.

## 2. An array of doubles

Define an array of five `doubles`.

Use a `while` loop to ask the user to enter five values that you write into the elements of the array.

Now use another loop to look through the array and find the *smallest* number that the user entered.

Print this value out.

## 3. More with the numbers.

Start with the program that you wrote for the last question.

Modify it to add a `do/while` loop that takes every element in the array and multiplies it by 2.

Now make your program print out every element of the list.

## 4. Two arrays that play together

Define an array of six `integers` and an array of six `bools`

Initialise the members of the array of `ints`

Use a `for` loop to step through the array of `ints`. If an element of the integer array is even, set the corresponding element of the array of `bools` (the one with the same index) to `true`. Otherwise set the corresponding element of the `bool` array to `false`

Now step through the `bool` array element by element. If the element is `true` print out the message:

```
It is, I say, it is!
```

If it is `false`, print out the message:

```
Say it ain't so!
```