Pre-lab Exercises - Worksheet4: Arrays and Strings

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1. Array Declarations

a) Declaration of an `int` array allocating memory for 14 integers.

b) Declaration and initialization of a `double` array. Memory for 4 double values are allocated.

c) Declaration of a multi dimensional `float` array.

d) Declaration of an array of `int` pointers.

e) Declaration of a multi-dimensional array containing 3 arrays with 4 arrays each. Each of the 4 arrays contains pointers to pointers to `void`.

f) Declaration and initialization of a character array. This is C's equivalent of a string.

```
s = {'H','e','l','l','o','\0'};
```

g) Declare `s` as a pointer to a `char` array containing `"Hello"`. This is known as a *read-only string* because `s` is only a pointer and not a freely modifiable array.

2. Arrays and Pointers

Test	Table	Here
Hello	World	!