

1. Declare an array that will hold exactly 5 real numbers.

```
double name [ 5 ];  
+20      +10  +20
```

type could also be **float**
any valid identifier is ok for the array name
square brackets are required
size inside brackets is required
semi-colon is required

2. An array of integers named **fib** is declared to have 5 elements.

(a) Show how you would initialize the first two elements to the value 1.

```
fib[0] = 1;      + 2 array name  
fib[1] = 1;      + 2 square brackets  
                + 2 assigned the value 1  
                + 2 indices 0 and 1  
                + 2 semi-colons
```

(b) Write a `for()` loop that initializes the remaining elements such that the element with index k is the sum of the previous two elements.

```
for( int k = 2; k <= 4; k++ )  
    fib[k] = fib[k-1] + fib[k-2];  
  
+10 for()  
+10 loop control variable declared and initialized  
+10 loop iterates 3 times  
+10 loop body is correct
```