

**Worksheet #15**

CS 1405

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Name: \_\_\_\_\_

Score: \_\_\_\_\_

1. The only integer that can be assigned to a pointer variable is \_\_\_\_\_.
2. The \_\_\_\_\_ operator returns the address of its operand.
3. Do the following:
  - a. Define an array of type **double** called `numbers` with 10 elements and initialize the elements to the values 0.0, 1.1, 2.2, 3.3, ... 9.9. Assume the named constant `SIZE = 10` has been defined.
  - b. Define a pointer `dPtr` which points to a variable of type **double**.
  - c. Give two separate statements that assigns the starting address of the array `numbers` to the pointer variable `dPtr`.
  - d. Write a for loop to print the elements of array `numbers` using array subscript notation.
  - e. Write a for loop to print the elements of array `numbers` using pointer-offset notation with pointer `dPtr`.
  - f. Refer to element 4 of array `numbers` using array subscript notation.

- g. Refer to the 6<sup>th</sup> element of array `numbers` using pointer subscript notation.
- h. Refer to the 2<sup>nd</sup> element of array `numbers` using pointer-offset notation with `dPtr`.
- i. What element does `dPtr` point to after `dPtr += 6` is executed? What is the value stored at that location?