For each of the following, write C++ statements that perform the specified task. Each part of the exercise should use the results of previous parts where appropriate.

1) Declare a built-in array of type double called *numbers* with 10 elements, and initialize the elements

to the values 0.0, 1.1, 2.2, …, 9.9.

2) Declare a pointer *nPtr* that points to a variable of type double.

3) Write two separate statements that each assign the starting address of array *numbers* to

the pointer variable *nPtr*.

4) Use a for statement to print the elements of array *numbers* using pointer/offset notation

with pointer nPtr. (reference: slide 101)

5) Use a for statement to print the elements of array *numbers* using pointer/subscript notation

with pointer nPtr. (reference: slide 101)

6) Refer to the fourth element of array *numbers* using pointer/offset notation with the array name as the pointer (reference: slide 101)

7) Assume that double-precision, floating-point numbers are stored in **eight** bytes and that the starting address of the array is at location **1002500** in memory:

a) If *nPtr* points to the beginning of array *numbers* then what address is referenced by *nPtr + 8*? (**manually** calculate)

b) What value is stored at that location?