Quiz 2, INFSCI 0020 Program Design and Software Tools, Jan 20, 2004

Names:

1. Which of the following is not a correct way to initialize an array?

```
(a) int n[ 5 ] = { 0, 7, 0, 3, 8, 2 };

(b) int n[] = { 0, 7, 0, 3, 8, 2 };

(c) int n[ 5 ] = { 7 };

(d) int n[ 5 ] = { 9, 1, 9 };
```

2. Which of the following operations does not produce a string?

```
(a) char string1[] = "test";
(b) char string1[] = { 't', 'e', 's', 't', '\0' };
(c) char string1[] = { 't', 'e', 's', 't' };
(d) char string1[] = " ";
ANS: (c)
```

3. Assuming that int a has a value of 3 and that integer array b has 7 elements, what is the correct way to assign the value of the sum of 3 and the third element, to the fifth element of the array?

```
(a) b[ a + 1 ] = b[ a ] + 3;

(b) b[ a + 1 ] = b[ a - 1 ] + 3;

(c) b[ a ] + 1 = b[ a + 3];

(d) b[ a + 2 ] = b[ a ] + 3;
```

ANS: (b)

ANS: (a)

- 4. Which of the following is false about a function being passed an array?
 - (a) it knows the size of the array it was passed
 - (b) it is passed the address of the first element in the array
 - (c) it is able to modify the values stored in the array
 - (d) the array name is passed as an argument

ANS: (a)

- 5. To prevent modification of array values in a function
 - (a) the array must be declared **static** in the function
 - (b) the array parameter can be preceded by the **const** qualifier
 - (c) a copy of the array must be made inside the function
 - (d) the array must be passed call-by-reference

ANS: (b)

6.	Pointers may be assigned to which of the following? (a) all integer values (b) an address (c) NULL (d) both (b) and (c)
	ANS: (d)
7.	Three of the following expressions have the same value. Which of the following's value is different from the others? (a) *&Ptr (b) &*Ptr (c) *Ptr (d) Ptr ANS: (c)
	711.15. (c)
8.	What method should be used to pass an array to a function that does not modify the array and only looks at it using array subscript notation? (a) a constant pointer to constant data (b) a constant pointer to nonconstant data (c) a nonconstant pointer to constant data (d) a nonconstant pointer to nonconstant data
	ANS: (a)
9.	Given that k is an integer array starting at location 2000, kPtr is a pointer to k, and each integer is stored in 4 bytes of memory, what location does kPtr + 3 point to? (a) 2003 (b) 2006 (c) 2012 (d) 2024
	ANS: (c)
10.	 (*max)(num1, num2, num3); (a) is the header for function max (b) is a call to the function pointed to by max (c) is the prototype for function max (d) is part of a declaration of a pointer to the function max
	ANS: (b)