What header file must you include in a program using character testing functions such as isalpha and isdigit? #include <cctype>

What header file must you include in a program using the character conversion functions toupper and tolower? - #include <cctype>

Assume c is a char variable. What value does c hold after each of the following statements executes?

Statement Contents of c

```
c = toupper('a'); _____
c = toupper('B'); _____
```

c = tolower('D'); _____

c = toupper('e'); _____ -

Α

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Look at the following code. What value will be stored in s after the code executes? char name[10];

```
int s;
strcpy(name, "Jimmy");
s = strlen(name); -
5
```

What header file must you include in a program using string functions such as strlen and strcpy? -

#include <cstring>

What header file must you include in a program using string/numeric conversion functions such as atoi and atof? -

#include <cstdlib>

	ader file must you include in a program using string class objects? - <string></string>
	you compare string class objects? - use relational expressions (< > = !=, etc.)
Theisupper	function returns true if the character argument is uppercase
The isalpha	function returns true if the character argument is a letter of the alphabet
Theisdigit	function returns true if the character argument is a digit
Theisspace	function returns true if the character argument is a whitespace character
The toupper	function returns the uppercase equivalent of its character argument
The tolower	function returns the lowercase equivalent of its character argument
The cctype	file must be included in a program that uses character testing functions
The	function returns the length of a string

To two strings means to append one string to the other. concatenate The function concatenates two strings. strcat The function copies one string to another. strcpy The function searches for a string inside of another one. strstr The function compares two strings. strcmp The function copies, at most, n number of characters from one string to another. strncpy The function returns the value of a string converted to an integer. atoi The function returns the value of a string converted to a long integer. atol The function returns the value of a string converted to a float. atof

strlen

The	function	converts	an	integer	to a	a string	
itoa							

T/F: Character testing functions, such as isupper, accept strings as arguments and test each character in the string. -

False, accepts only characters

T/F: If toupper's argument is already uppercase, it is return as it, with no changes. -

T/F: If tolower's argument is already lowercase, it will be inadvertently converted to uppercase. -

False, stays the same

T/F: The strlen function returns the size of the array containing a string. - False, returns length

T/F: If the starting address of a string is passed into a pointer parameter, it can be assumed that all the characters, from that address up to the byte that holds the null terminator, are part of the string. -

True

T/F: String-handling functions accept as arguments pointers to strings (array names or pointer variables), or literal strings. -

True

T/F: The streat function checks to make sure the first string is large enough to hold both strings before performing the concatenation. - False, strncat

T/F: The strcpy function will overwrite the contents of its first string argument. -

True

T/F: The strcpy function performs no bounds checking on the first argument. - True

T/F: There is no difference between "847" and 847. - False, one is a string and one is an int

```
Find the errors:
char str[] = "Stop";
if (isupper(str) == "STOP")
exit(0); -
```

The isupper function can only be used with characters, not strings

```
Find the errors:
char string1[] = "Billy";
char string2[] = "Bob Jones";
strcat(string1, string2); -
There is not enough space in string 1 to fit both strings
```