CSC 209 Review 6 Solution

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1 Exercises

- 1. I need to write which of the supplied function calls don't work and explain why.
 - b) String format in printf expects character constant, but string literal is used
 - c) String format in printf expects string but character constrant is used
 - e) The first argument in **printf** expects pointer but character constrant (an integer) is used isntead
 - h) The first argument in putchar expects a character, but string literal (a pointer to character) is used
 - i) The first argument in puts expects a pointer to character, but character constant (an integer) is used

Notes

- putchar
 - Syntax: int putchar(int char)
 - Writes a character (an unsigned char) specified by the argument char to stdout.
 - Does not append a new line to the output
 - Is similar to printf but for character
- puts
 - Syntax: int puts(const char *str)
 - Writes a string to stdout up to but not including the null character
 - Appends a newline character to the output.
 - Is similar to printf but for string
- Character Constant
 - Syntax: ' ... '

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- Is represented by an integer

• String Literal

- Syntax: " ... "
- Has a sequence of characters inside
- Ends with $\setminus 0$
- Is represented by a pointer

Example

"When you come to a fork in the road, take it"

- Escape Squences in String Literal
 - A common example is '\n'
 - * causes the cursor to advance to the next line
- 2. First, I need to write which of the provided function calls are legal, and write the output produced

The solution to the first part is:

- b) [output: a]
- c) [output: abc]

Second, I need to write which of the following function calls are illegal, and explain why.

The solution to the second part is:

- a) purchar expects a character constant (an integer) but a value of type pointer to char is used
- d) puts expects a variable of type pointer to char, but a variable of type pointer to char is used