

CSC 209 Review 6 Solution

August 24, 2020

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 constant is used
- e) The first argument in `printf` expects pointer but character constant (an integer) is used instead
- 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:** `' ... '`

- Is represented by an integer
- **String Literal**
 - **Syntax:** " . . . "
 - Has a sequence of characters inside
 - Ends with `\0`
 - Is represented by a pointer

Example

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

- **Escape Sequences 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:

- c) [output: abc]
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