[C] Day7

Course	Advanced C
	@April 13, 2022

[Ch7] Input and Output

7.8 Miscellaneous Functions

7.8.1 String Operations

We have already learned the string functions <code>strlen</code>, <code>strcpy</code>, <code>strcat</code>, and <code>strcmp</code>, found in <code><string.h></code>.

In the following, s and t are char*, and c and n are ints.

```
strcat(s, t) // Concatenate t to end of s
strncat(s, t, n) // Concatenate n characters of t to end of s
strcmp(s, t) // Return negative, zero, or positive for s < t, s == t, or s > t
strncmp(s, t, n) // Same as strcmp but only in first n characters
strcpy(s, t) // Copy t to s
strncpy(s, t, n) // Copy at most n characters of t to s
strlen(s) // Return length of s
strchr(s, c) // Return pointer to first c in s, or NULL if not present
strrchr(s, c) // Return pointer to last c in s, or NULL if not present
```

7.8.2 Character Class Testing and Conversion

Several functions from <ctype.h> perform character tests and conversions.

The following functions return int.

```
isalpha(c) // Non-zero if c is alphabetic, 0 if not
isupper(c) // Non-zero if c is upper case, 0 if not
islower(c) // Non-zero if c is lower case, 0 if not
isdigit(c) // Non-zero if c is digit, 0 if not
isalnum(c) // Non-zero if isalpha(c) or isdigit(c), 0 if not
isspace(c) // Non-zero if c is blank, tab, newline, return, formfeed, vertical tab
toupper(c) // Return c converted to upper case
tolower(c) // Return c converted to lower case
```

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7.8.3 Ungetc

```
int ungetc(int c, FILE *fp)
```

pushes the character c back onto file fp, and returns either c, or for an error.

7.8.4 Command Execution

The function <code>system(char *s)</code> executes the command contained in the character string <code>s</code>, then resumes execution of the current program.

As a trivial example, on UNIX systems, the statement

```
system("date");
```

causes the program date to be run.

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