

C CONTROL STRUCTURES

if (...) { ... } else if (...) { ... } else { ... }	switch (integer-expr){ case constant-label: ... break; ... default: ... Break; }
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Operators	Associativity	Type
○ [] ++ (postfix) -- (postfix)	left to right	postfix
+ - ++ -- ! * & (type)	right to left	unary
* / %	left to right	multiplicative
+ -	left to right	additive
< <= > >=	left to right	relational
== !=	left to right	equality
&&	left to right	logical AND
	left to right	logical OR
?:	right to left	conditional
= += -= *= /= %=	right to left	assignment
,	left to right	comma

COMMON C FUNCTIONS

- sizeof()

stdio.h

- size_t
- EOF
- stdin
- putchar()
- printf()
- NULL
- FILE
- stdout
- getchar()
- scanf()
- int sprintf(char *s, const char *format, ...)
- returns the number of characters written to s
- int sscanf(char *s, const char *format, ...)
- returns the number of items successfully read from s
- FILE* fopen(const char *filename, const char *mode)
- returns NULL when failed (r, w, a, r+, rb, wb, ab, rb+)
- fclose(FILE *fp)
- int feof(FILE *fp)
- tests the end-of-file indicator for given stream
- fputc(int c, FILE *fp)
- writes the character c to the stream
- int fgetc(FILE *fp)
- gets the next character from the stream
- int fputs(char *buf, FILE *fp)
- returns number of chars written to stream from buf
- char* fgets(char *buf, int n, FILE *fp)
- reads the next line or (n-1) characters from the stream and stores it into buf, returns NULL if end-of-file
- int fprintf(FILE *fp, const char *format, ...)
- returns the number of characters written to stream
- int fscanf(FILE *fp, const char *format, ...)
- returns the number of items read from stream or EOF
- rewind(FILE *fp)
- sets the file position to the beginning of the file
- size_t fwrite(void *ptr, size_t size, size_t nmemb, FILE *stream)
- writes nmemb elements, each with size bytes, to the stream and returns the number of elements successfully written
- size_t fread(void *ptr, size_t size, size_t nmemb, FILE *stream)
- reads nmemb elements, each with size bytes, from the stream and returns the number of elements successfully read
- int fseek(FILE *stream, long int offset, int whence)
- sets the file position to the offset, returns 0 if successful
 - offset is the number of bytes to seek from location whence (SEEK_SET, SEEK_CUR, SEEK_END)

string.h

- size_t
- strlen()
- strcpy(char *s1, const char *s2)
- copies its second argument into its first argument
- strcat(char *s1, const char *s2)
- appends its second argument to its first argument
- memmove(void *p1, const void *p2, size_t n)
- copies n characters from p2 to p1
- memset(void *p, int c, size_t n)
- sets the first n characters of p to the character c
- char* strtok(char *s, const char *delim)
- returns NULL If no tokens remain