

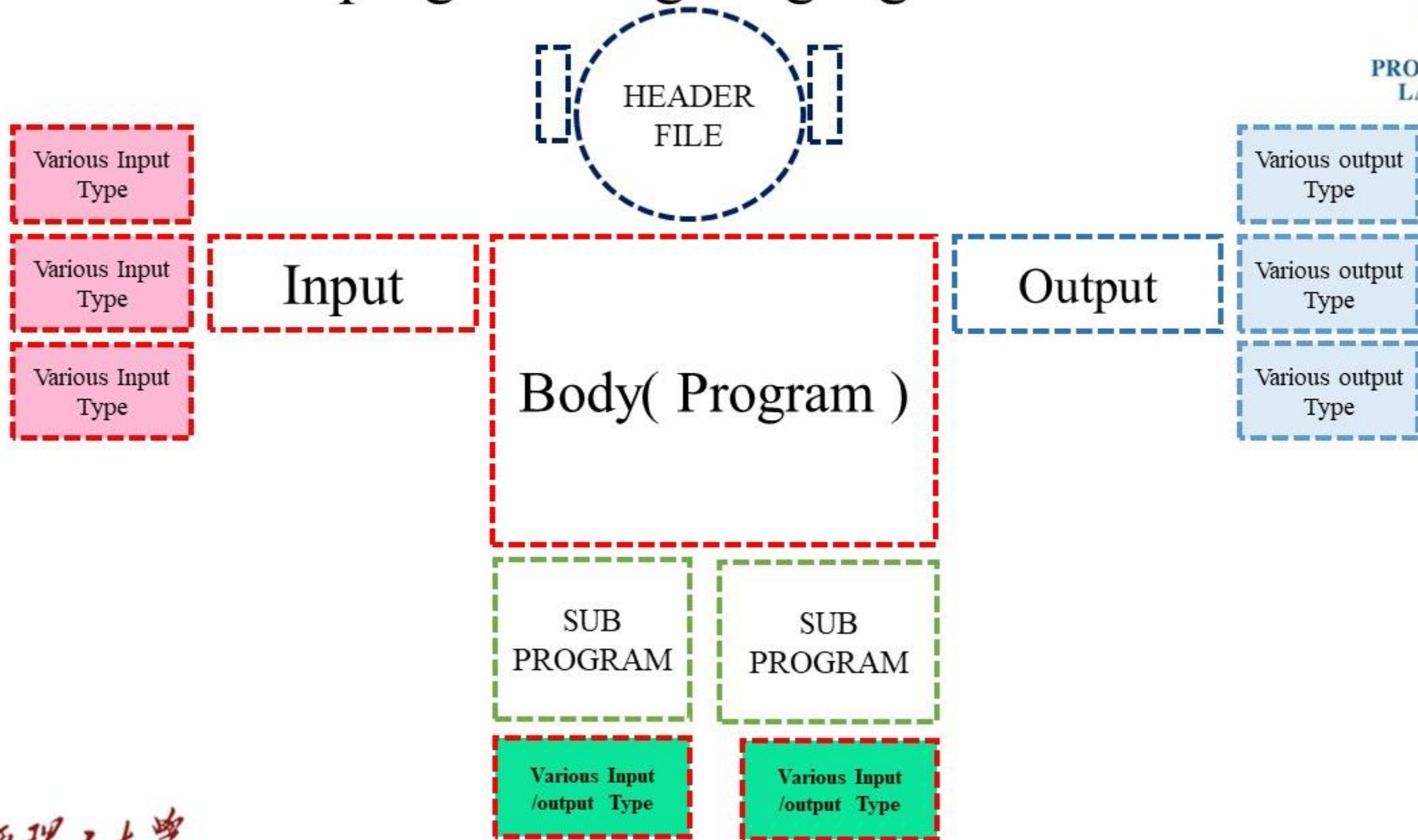


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C language headers



My idea about all programming language



C Library Headers



- **<stdio.h>**:

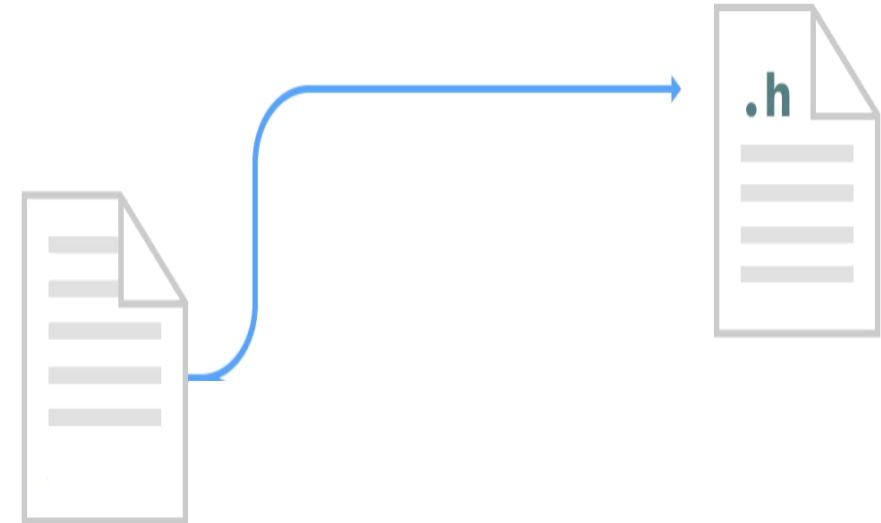
- contains function prototypes for functions such as printf() and scanf().

- **<stdlib.h>**:

- contains function prototypes for conversion between numbers and texts (e.g., atoi(), atof(), strtod()); memory allocation (malloc(), free()); random number generator (rand(), srand()); system utilities (exit(), abort()).

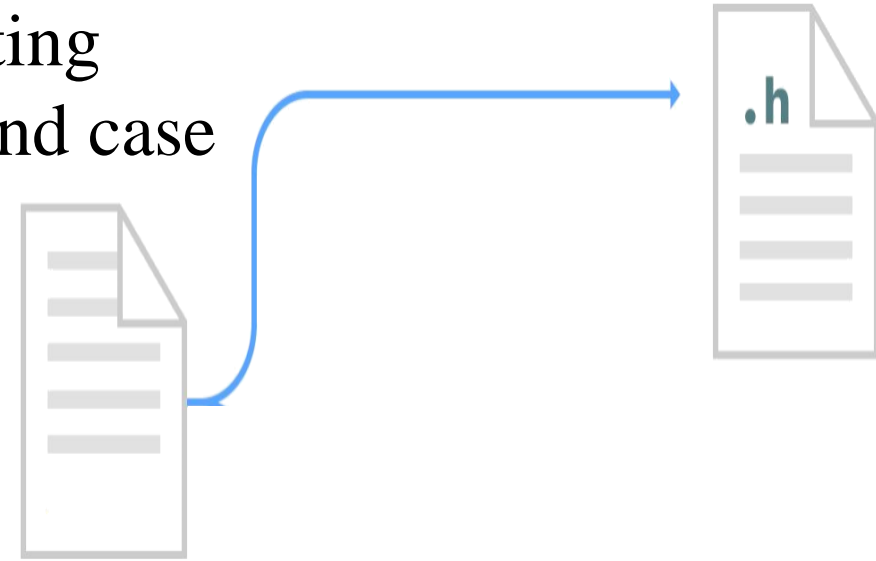
- **<math.h>**:

- contains function prototypes for mathematical functions (e.g., pow(), sqrt()).



C language headers

- **<ctype.h>**:
 - (character type) contains function prototypes for testing character properties (isupper(), isalpha(), isspace()) and case conversion (toupper(), tolower()).
- **<limits.h>**, **<float.h>**:
 - contains integer and float size and limits.
- **<string.h>**:
 - contains function prototypes for string processing functions (e.g., strcpy(), strcat(), strcmp()).



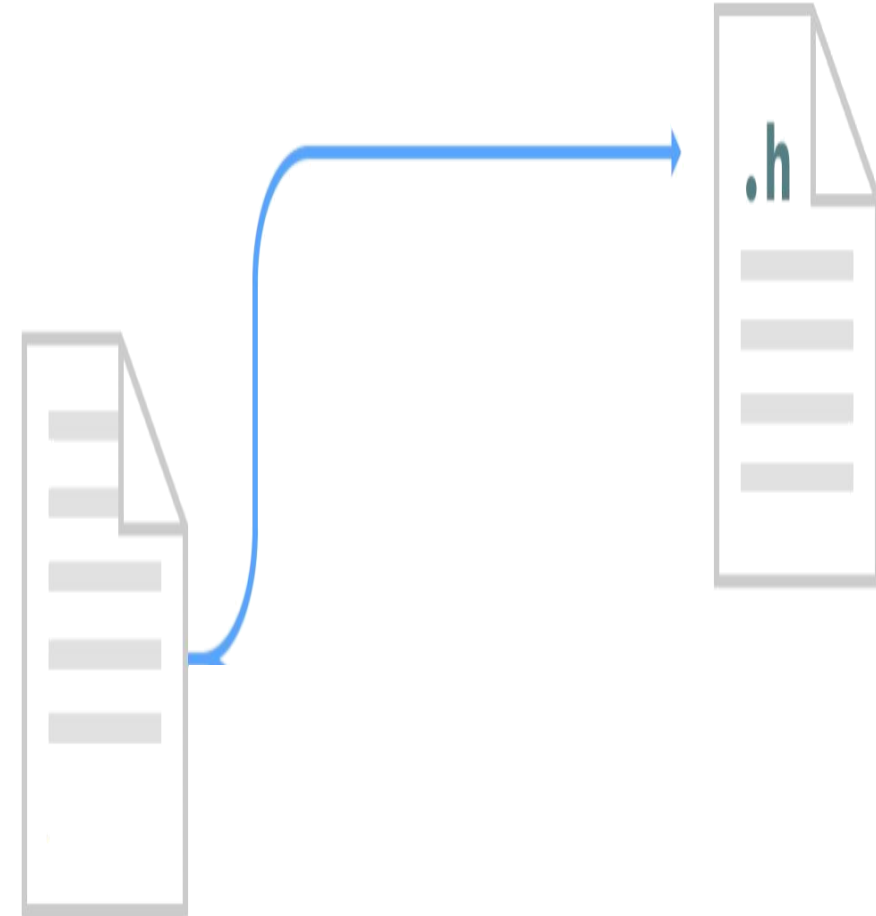
C language headers

- **<time.h>**:
 - contains function prototypes for date and time functions (e.g., time()).
- **<assert.h>**:
 - for assertion (to aid in diagnostics).
- **<errno.h>**:
 - for error reporting.



C language headers

- **<signal.h>**:
for raising and handling signals.
- **<stdarg.h>**:
• for handling variable argument.
- **<stddef.h>**:
• contains common type definition such as size_t.
- **<locale.h>**:
- **<setjmp.h>**:



Student TASK

- Find more header and make PPT then send



Reference

- BOOK
- Some part of this PPT given by Prof 欧 (Chengtian Ouyang)
- with special thank
- <https://www.codingunit.com/c-tutorial-hello-world>

