

Date: 19-9-21:

- int *p ✓
- char *p ✓
- float *p ✓

→ function pointers
A pointer which is pointing to the address of a function.

Syntax:

return type (*variable) (arg's)

Ex: int (*ptr) (int)

↳ ptr is a function pointer, a function which is taking one int argument and returns integer.

\Rightarrow int (*ptr) (int) \Rightarrow ptr is a function pointer

\Rightarrow int * ptr (int); \Rightarrow ptr is a function

\rightarrow function name itself
represents the address

\rightarrow void (*ptr) (void)

\rightarrow void (*ptr) (int, int)

ptr = add

\rightarrow int (*ptr) (int, int).

\rightarrow function pointers are specific
based on function return type & arguments
function pointers declared

major applications of function pointers

① call back functions (call back code) ✓

→ Libraries (Run Time Linking) ✓

✓ → signal handling (call back code) ✓

✓ → Threads creation

call back code / call back function :

- ✓ → function code gets executed when function name passed as argument
- ✓ → passing the reference of the function as an argument to another function for calling that function through function pointer then the function is called call back function.