

Pointer

```
pointers int i, *p = &i;
scanf("%d", p); // not "%p"
• 'const' would protect pointer
void f(const int *p) {
    *p = 0; } // wrong
• Never return a pointer to
  an automatic variable:
int *f(void) {
    int i;
    return &i; }
// the variable i would not exist
```

• `&a[i]` points to the *i*-th element in a string

'abc' =>

a	b	c	\0
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=> `char str[4]` since "\0" take one position

`char *str = "abc"`

`printf("%25ln", str);` // ab

`puts()` write an additional new-line char

`scanf("%s", str)` // no need of "%s"

`gets()` would not skip white-space and stop at new-line

`scanf("%ms", str)` store *n* char at max,

similar with `fgets()`.

`strlen()`

`strcat()`

`strcmp()`.

The Preprocessor

`#define N 100`

Large Program

`#include <clib.h> #include "file.h"`

Condition compilation

Shebang.

.O extension

.O: object file: storing compiled object code

Shebang: character sequence consisting of the characters number sign and exclamation mark at the beginning of a script.

