C main function:

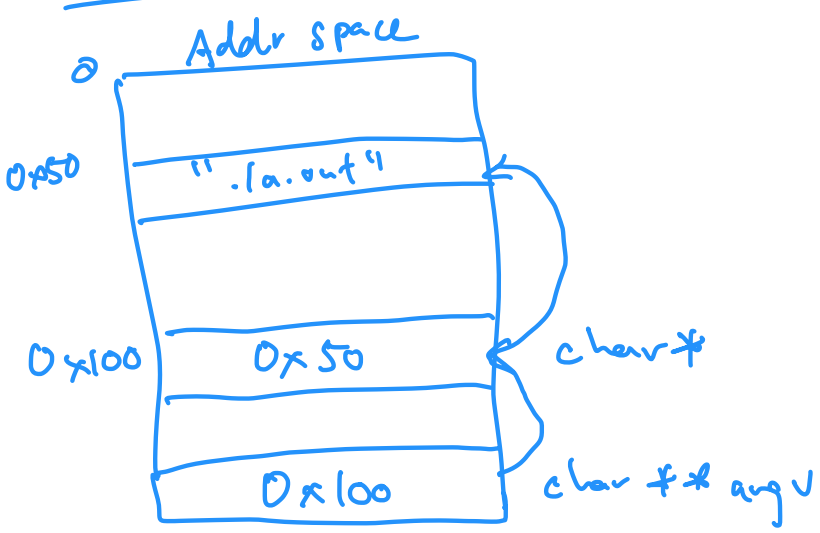
```
int main(int argc, char *argv[]) {

}
```

- argc: # command line args
- argv: array of char * containing the command line args

Ex: `> ./a.out hello world`

argv = {"./a.out", "hello", "world"}
argc = 3

char *argv[] == char **argv



File I/O / Reading from Stdin

FILE* fopen(char *path, char *mode)
- if NULL returned, cannot open file, e.g., file Does Not Exist
- mode: "r": read, "w": write } what you want to do w/ the file

char *fgets(char *buffer, int size, FILE* file_ptr)
- reads size-1 bytes from the file pointed to by file_ptr & stores in buffer
- if NULL returned, then reached end of file

List *list

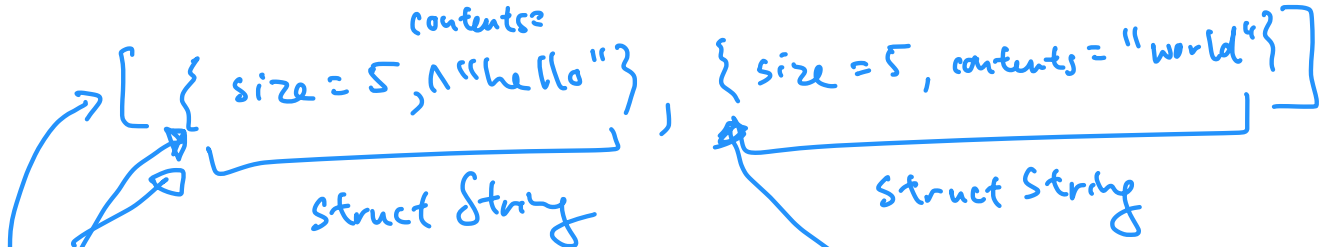
⇒ list -> contents[i].contents

(*list).contents[0].contents

String struct

```
struct List {
    int size;
    int capacity;
    String *contents;
};

struct String {
    int size;
    char *contents;
};
```

Ex: ("hello", "world")



typeof(list) = List *

typeof(list -> contents) = String *

typeof(list -> contents[0]) = String

typeof(&list -> contents[0]) = String *

typeof(&list -> contents[i]) = String *

typeof(list -> contents[0].contents) = char *