

Libs (#include)

```
<stdio.h>
<stdlib.h>
<string.h>
<math.h>
<unistd.h> - sleep()
```

I/O

FLUSH IN `__fpurge(stdin)`

FLUSH OUT `fflush(stdout)`

IN `scanf("formato", &var)`

OUT `printf("string")`

Data

(un)signed char `%c`

short `%hi`

unsigned short `%hu`

int `%i / %d`

unsigned int `%u`

long `%li`

float `%f`

pointer addr `%p`

string `%s`

Format

%0.nf n decimales

%nd Tamaño (espacios pre)

%0nd Tamaño (0 pre)

Char Array -> String

```
void qs(char *cad) {
    if (cad[strlen(cad) -
1] == '\n') {
        cad[strlen(cad) - 1] = '\0';
    }
}
```

Strings

fgets(str, size, stdin)

strlen(str)

strcpy(dest, src, size)

strcmp(str1, str2) (M < m)

> 0 str1 > str2

= 0 str1 = str2

= 0 str1 = str2

end: "\0"

Pointers

declaration `int *ip;`

storing address `ip = &var;`

ip `bffd8b3c`

***ip** `var (value)`

Files

FILE *pointer

pointer = fopen("files", "mode")

fread(point(O), sizeof(varType), 1, point(I))

fwrite(point(I), sizeof(varType), 1, point(O))

fseek(pointer, size, whence:)

SEEK_SET Inicio

SEEK_CUR Pos actual

SEEK_END Final

fclose(pointer)

File Open: mode - operation - exist

r read N: NULL

w write Y: overw N: create

a append N: create

r+ read/write N: NULL

w+ read/write Y: overw N: create

a+ read/app N: create

Mb binary

Reservar Memoria

```
int** reservaMemoria(int filas, int
columnas) {
    int ** matriz, i=0;
    matriz = (int**) malloc(filas *
sizeof (int*));
    for (i = 0; i < filas; i++){
        matriz[i] = (int*)
malloc(columnas * sizeof (int));
    }
    return (matriz);
}
```

Liberar Memoria

```
void liberaMemoria(int**matriz, int
filas){
    int i=0;
    for(i=0;i<filas;i++){
        free(matriz[i]);
    }
    free(matriz);
}
```

Reservar struct

```
struct struct_files *arrayFiles;
void reservarStruct(int
nElementos, struct struct_files*
arrayFiles){
    arrayFiles = (struct
struct_files*)
malloc(sizeof(struct
struct_files) * nElementos);
}
```

Liberar struct

```
void liberarStruct(struct
struct_files* arrayFiles){
    free(arrayFiles);
}
```



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Open Carefully

```
if((salida = fopen("files.dat", "r+")) ==  
NULL) {  
    salida =  
fopen("files.dat", "w+");  
}
```

C

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