# ASCII

# FILE & DIRECTORY

strcat(dest, src)

strchr(str, 'c')

// append

// find char in string

```
'0' 48 '9' 57 'A' 65 'Z' 90 'a' 97 'z' 122
                       # List with all info
                                                                                                                                                                                                                         typedef struct ListNode {
                                                                                                    # Integer Types
char 1 B %c [-128 to 127]
short 2 B %hd [-32K to 32K]
                        # Change directory
# Show current directory
                                                                                                                                                                                                                            int data;
struct ListNode* next;
 cd /path
                                                                                                                                                                                                                                                                                                              typedef struct Node {
  int data;
  struct Node* next;
                                                                                                                                                                                                                                                                                                                                                                                                       typedef struct Node {
    int data;
    struct Node* next,
    struct Node* next,
    struct Node* prev;
} Node;
} Function to create a new node
Node* createNode(mt data) {
    Node* newNode = (Node*)malloc(sizeof(Node));
    newNode-beat = odat;
    newNode-beat = odat;
    newNode-beat = will II :
                          # Make directory
 mkdir name
                                                                                                                                                                                                                        }ListNode:
                                                                                                     int 4 B %d/%i [-2.1B to 2.1B]
long 8 B %ld [-9.2Q to 9.2Q]
long long 8 B %ld same as long
                             # Remove empty directory
                                                                                                                                                                                                                        # TRAVERSE I IST
 rmdir name
rmdir name # Remove empt m file | -r dir # Remove file/dir cp src dest # Copy file/dir mv src dest # Move/rename touch file # Create file find / -name †" # Find file # VIEW & EDIT FILES
                                                                                                                                                                                                                        for (ListNode* cur = head; cur != NULL;
cur = cur->next) {
                                                                                                                                                                                                                                                                                                                Function to create a new node
                                                                                                                                                                                                                                                                                                             Node* createNode(int data) {
Node* newNode = (Node*) malloc(sizeof(Node));
newNode->data = data;
                                                                                                                                                                                                                            printf("ListNode: %d. addr: %p\n".
                                                                                                      # Unsigned Integer Types
                                                                                                    # Unsigned Integer Types
size_t \( \frac{1}{8} \text{U} \)
unsigned char \( 1 \) B \\
unsigned short \( 2 \) B \\
unsigned int \( 4 \) B \\
unsigned int \( 4 \) B \\
unsigned int \( 4 \) B \\
unsigned int \( 9 \) to \( 12 \) B \\
unsigned int \( 12 \) B \\
\text{Will (0 to 18.4Q)} \\
unsigned long \( \long \) B B \\
\text{Will usame as above}
# Floating Point Types
float \( 4 \) B \\
\text{M} \( 6 \) f \( -6-7 \) decimal digits
                                                                                                                                                                                                                         cur->data cur): 1
                                                                                                                                                                                                                           t ADD TO HEAD
                                                                                                                                                                                                                                                                                                                 newNode->next = NULL;
return newNode;
                                                                                                                                                                                                                         ListNode* addToHead(...) {
cat file # Show file content
more/less file # View file paged
nano/vi/vim file # Edit file
                                                                                                                                                                                                                            node->next = head:
                                                                                                                                                                                                                                                                                                                                                                                                          newNode->prev = NULL;
return newNode;
                                                                                                                                                                                                                                                                                                              // Function to print the linked list
                                                                                                                                                                                                                                                                                                             void printList(Node* head) {
                                                                                                                                                                                                                                                                                                                                                                                                        // Function to print the linked list
void printList(Node* head) {
  Node* temp = head:
 head -n 10 file # First 10 lines
                                                                                                                                                                                                                         ListNode* appendToTail(...) {
                                                                                                                                                                                                                                                                                                                Node* temp = head;
while (temp != NULL) {
 tail -f file # Last lines (follow)
                                                                                                                                                                                                                            node->next = NULL:
 chmod 7
 # SYST
 uname
df -h
 du -sh d
top / htc
free -h
 uptime
 who
 ps aux
kill PID
killall na
jobs
bg / fg
 # NETW
 waet UR
 ss / nets
 # COMF
 tar -cvf t
 azip file
 gunzip fi
zip f.zip
 unzip f.z
 # MISC
 man cm
 alias II=
 history
 clear
# GITH
cd path/
git init
 git add i
 git comr
# GDB -
 break m
 break 10
 break file
delete
delete 1
 enable 1
 info bre
 # GDB
 run
 continue
                                                                                                                                                                                                                                                                                                                                                 Ur failing
 breakpo
next / n
 step / s
 finish / f
 # GDB -
info loca
                                                                                                                                                                                                                                                                                                                                                        dum fuk
 print x
 print arr
set var x
 watch x
 backtrack)
 # GDB
 list / l
layout sr
 refresh
 # Valgr
gcc -g fi
valgrind
 valgrind
 gcc -pg
 ./a.out
 gprof ./a
 #FILEIO
 FILE *in
FILE *ou
double x
 while (fs
 fclose(in
FILE* f =
f = foper
 f = fopen("file.txt", "a"); // append mode
                                                                                                           ireeHashTable() {
(int i = 0; i < TABLE_SIZE; i++) {
Hashentry* temp – hashtable[i]; // head of list
while (temp) {
Hashentry* tofree – temp; // store node to free
temp – temp>-next; // move to next
free(tofree); // free node
                                                                                                                                                                                                                                          if (!arr[i][j][k]) return NULL; }}}
 fprintf(f, "x=%d\n", x);
fscanf(f, "%lf", &y);
                                                                                                                                                                                                                          return arr:}
                                                                                                                                                                                                                                                                                                                                                                                                              if (temp != NULL && temp->data == key) ( // Deleting head *head = temp->next;
                                                // read a float
                                                                                                                                                                                                                                                                                                                Node* copyList(Node* head) {
   if (head == NULL) return NULL; // If list is empty
                                                                                                                                                                                                                       void free4Darray(int ****arr, int d1, int d2,
 fgetc(f), fputc('A', f);
                                              // char I/O
                                                                                                                                                                                                                       int d3) {
                                                                                                                                                                                                                                                                                                                  Node* newHead = createNode(head->data); // First node copy
Node* currOld = head->next;
Node* currNew = newHead;
                                              // close file
                                                                                                                                                                                                                           for (int i = 0: i < d1: i++) {
                                                                                                                                                                                                                               for (int j = 0; j < d2; j++) {
                                                                                                                                                                                                                                                                                                                                                                                                              while (temp != NULL && temp->data != key) { // Search node
    prev = temp;
    temp = temp->next;
 #STRING FUNCTIONS (string.h)
                                                                                                                                                                                                                                    for (int k = 0; k < d3; k++) {
                                  // copy string
// string length
// compare strings
                                                                                                                                                                                                                                                                                                                   while (currOld != NULL) { // Loop through old list
currNew->next = createNode(currOld->data); // Create
currNew = currNew->next; // Move forward in new list
currOld = currOld->next; // Move forward in old list
 strcpy(dest, src)
                                                                                                                                                                                                                                        free(arr[i][i][k]);}
 strcmp(s1, s2)
                                                                                                                                                                                                                                    free(arr[i][j]);}
                                                                                                                                                                                                                                                                                                                                                                                                             if (temp == NULL) return; // Not found
```

free(arr[i]);}

free(arr);}

# STRUCT

# SINGLY LINKED

#DOUBLY LINKED

prev->next = temp->next; // Remove link free(temp); // Free memory

return newHead; // Return head of copied list