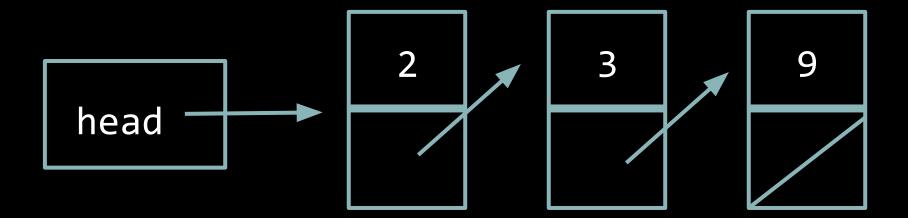
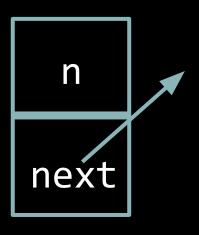
Linked Lists

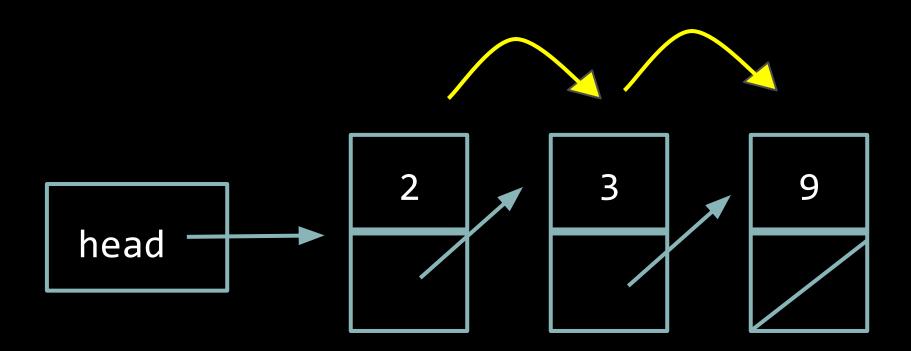


Nodes

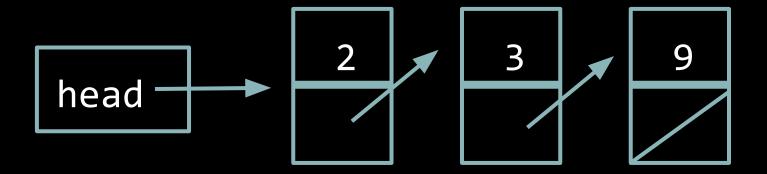


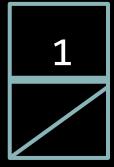
```
typedef struct node
{
   int n;
   struct node* next;
}
node;
```

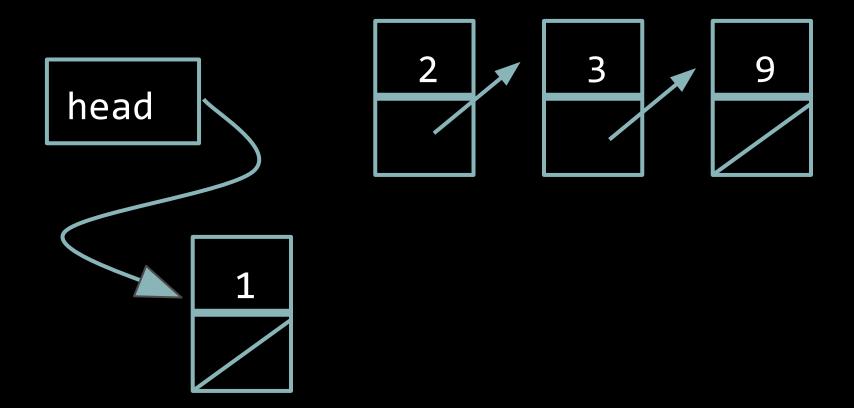
Search

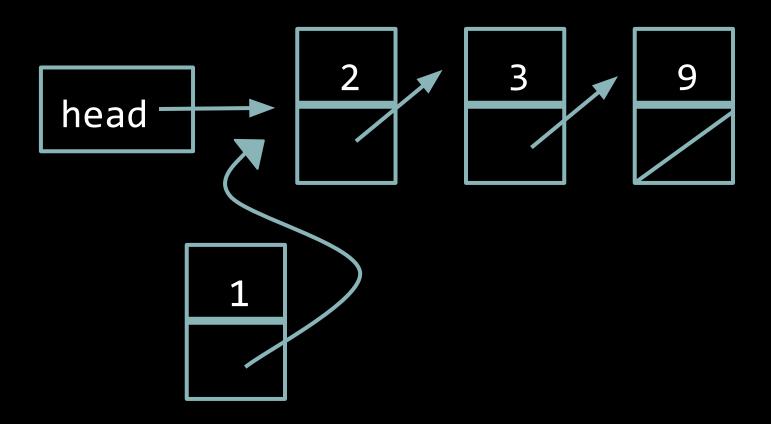


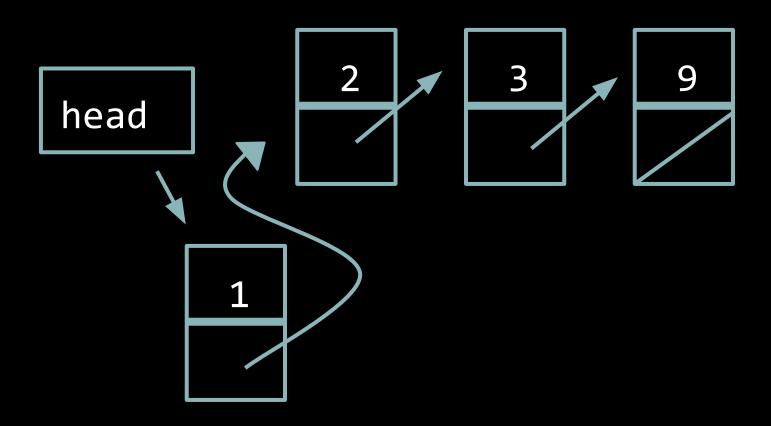
```
bool search(node* list, int n)
  node* ptr = list;
  while (ptr != NULL)
     if (ptr->n == n)
        return true;
     ptr = ptr->next;
  return false;
```





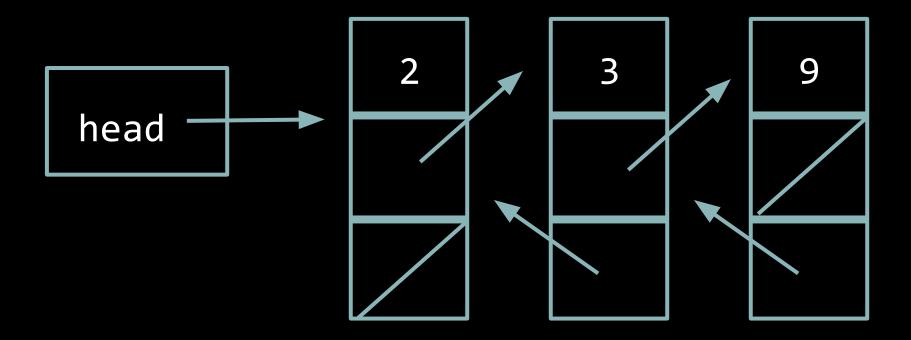




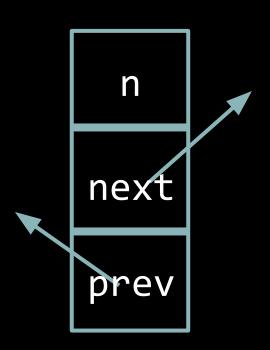


```
void insert(int n)
{
   // create new node
   node* new = malloc(sizeof(node));
    // check for NULL
   if (new == NULL)
   {
       exit(1);
    // initialize new node
   new->n = n;
   new->next = NULL;
    // insert new node at head
   new->next = head;
   head = new;
```

Doubly Linked Lists



DLL Nodes



```
typedef struct node
{
   int n;
   struct node* next;
   struct node* prev;
}
node;
```