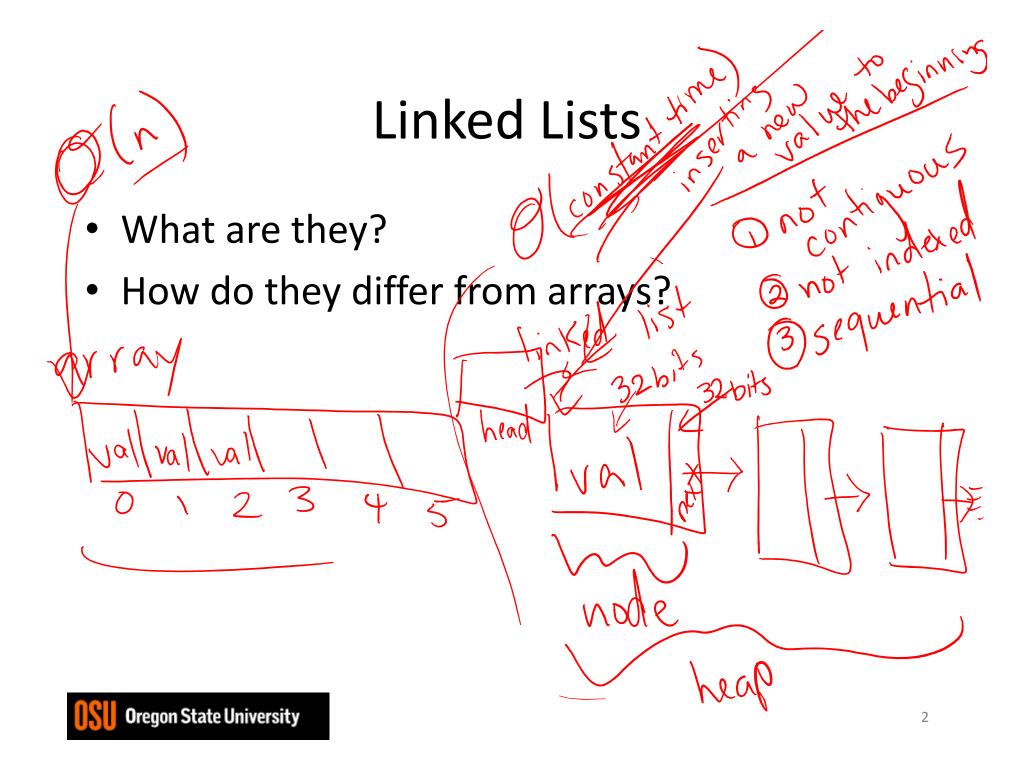
## CS 162 Intro to CS II

Intro to C Programming



```
Dinsphr=head
                                access.engr.orst.edu - PuTTY
   #include <stdio.h>
                         //NULL is here
   #include <stdlib.h>
 4 struct node {
      int val;
      struct node *next;
 6
 7 };
 8
                                          6x2000
                                                                      00
 9 int main(){
10
      int num, i;
11
      struct node *head=NULL;
12
                                            headin
13
      //head = new node;
14
      head=malloc(sizeof(struct node));
15
16
      head->val=20;
17
      head->next=NULL;
18
19
      printf("1st node val: %d\n", head->val);
20
      //delete head;
21
      free (head);
22
23
      printf("hello\n");
     29L, 452C
```

```
_
                                                                        access.engr.orst.edu - PuTTY
 1 #include <stdio.h>
 2 #include <stdlib.h> //NULL is here
 4 struct node {
 5
      int val;
      struct node *next;
  6
 7 };
 9 int main(){
10
      int num, i;
11
       struct node *head=NULL, *insptr=NULL;
12
13
       //head = new node;
14
      head=malloc(sizeof(struct node));
15
16
      head->val=20;
17
      head->next=NULL;
18
19
       insptr=head;
20
       head=malloc(sizeof(struct node));
21
       head->next=insptr; //link to old node
22
       head->val=10;
23
       insptr=NULL;
24
25
       printf("1st node val: %d\n", head->val);
26
      printf("2nd node val: %d\n", head->next->val);
27
      //delete head;
28
       free(head->next);
29
       free (head) ;
                                                           25,4
                                                                          Top
```

## Fun Friday

- Get into groups of 4-5.
- Write the pseudocode for pushing a node with a new value onto the front of the list.

 Write the pseudocode for pushing a node with a new value onto the back of the list.