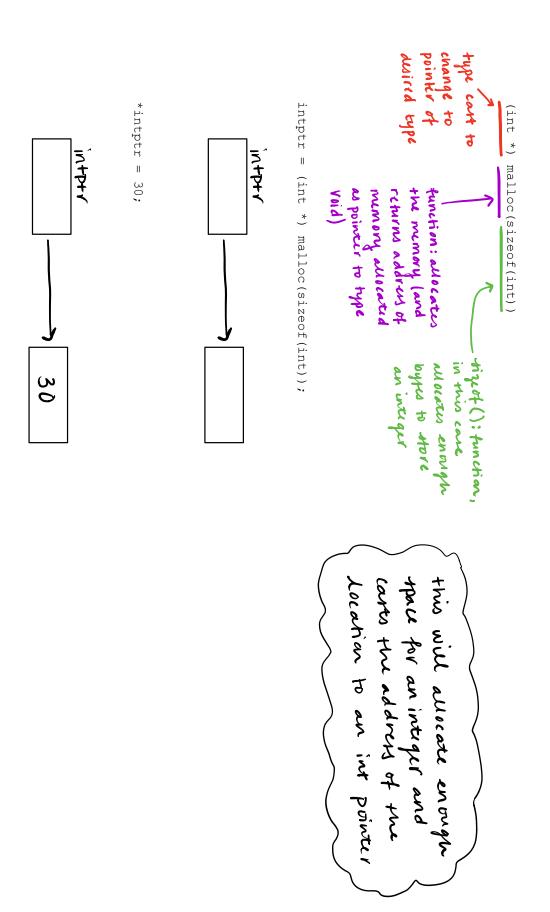
## Intro to Dynamic Memory Allocation & Linked Lists in C



```
0
                                                                                                                                                                                                                                                                                                                                            int main()
                                                                                                                                                                                                                                                                                                                                                                                       #include <stdio.h>
                                                                                                                                                                                                                                                                                                                                                                             #include <stdlib.h>
                                                                                                                                                                                                       chptr = (char *) malloc(sizeof(char));
*chptr = 'G';
printf("letter is %c\n", letter);
printf("*chptr is %c\n", *chptr);
                                                                                                                                                                                                                                                                                    Lchptr = &letter;
                                                                                                                                                                        free(chptr);
return 0;
                                                                                                                                                                                                                                                              printf("letter is %c\n", letter);
printf("*chptr is %c\n", *chptr);
                                                                                                                                                                                                                                                                                                                     char letter = 'L',
                                                 Lutter in L
Leter is L
                                                                                                                    supput:
                                                                                                                                                                                                                                                                                                          *chptr;
                                                                                                                                                                                                                              2pt
                                                                                                              B
```

// Example 1

```
Dutput:
                      The data member is 11
The data member is 11
                                                        The data member is 23
                                                                                                                                                                                                                                                                          (P)
                                                                                                                                                                                                                                                                                                                                                 int main()
                                                                                                                                                                                                                                                                                                                                                                                      typedef node * nodeptr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      typedef struct linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #include <stdlib.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #include <stdio.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // Example 2 (from GPP C Ch. SAB, problem # 4a)
                                                                                                                                                                                                                                                     end -> data = 23;
end -> next = (nodeptr) malloc(sizeof(node));
                                                                                                                                                                                                                                                                                                                                                                                                     node;
                                                                                                                                                                                                                                                                                                                       nodeptr begin,
                                                                                                                                                                                                                  end -> next = NULL;
                                                                                                                                                                                                                              end \rightarrow data = 11;
                                                                                                                                                                                                                                           end = end -> next;
                                                                                                                                                                                                                                                                                 end = begin;
                                                                                                                                                                                                                                                                                             begin = (nodeptr) malloc(sizeof(node));
                                                                                                                                                                           printf("The data member is %d\n",begin -> data);
printf("The data member is %d\n",begin -> next -> data);
printf("The data member is %d\n",end -> data);
                                                                                                                                                                                                                                                                                                                                                                                                               struct linked *next;
                                                                                                                                                                                                                                                                                                                                                                                                                            int data;
                                                                                                                                       return 0;
                                                                                                                                                  free (end);
                                                                                                                                                               free (begin);
                                                                                                                                                                                                                                                                                                                                                                                                                                  B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               begin
                                                                                                                                         マタマ
                                                                                                                                                                                                                                                                                                                                                                                                                           begin
                                                                                                                                                                                                                                                                                                                                                           NEXT
                                                                         NEXT
                                                                                                                              data
                                                                                                                                                                                                                                                                                                                                                                                                                 data
                                                                                                           23
                                                                                                                                                                                                                                                                                                                                                                                             23
                                                                       שטנג
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                                                                                                                                                                                                                                                                                   LXBN
                                                                                                                            data
                                                                                                                                                                                                                                                                                                                                      data
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 NEXT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       data
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23
                                                                                                                                             end
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 60
```