```
Acrey Algorithm Anolysis
              odd Bildingside Coulding building fint portun) [
 int 6, 6=0;
 boolean alog stree,
 for Ct = position; kelenght; bert)(
    Forciso; it building (ounts idet, ita) (
                                                                  717
      17 ( 6 ) ( In a Siverici) . genshirtniesc) <= & + + 6 : ( Intrisive 7) , ge + Endagesc) >= () {nh
         irest;
                                                                          nL
  12(7log= +tue)c
     building Side 7 & building (went S.VE7] = building;
     building counts. we etc.
    building secshappies (pultin)
    builting seasureer) 1
    remainder = remainson - building , yealengh K/
 5/201
    sitten our ippropriations select zuil ") ,
にかりにかしせかけ (
                                                                 2034246
      0(2)
                ) G(nl)
      ふいい
 Public world delete Buildings (String nume )
   in+1:0, 1=0;
   Furlicalitations court SUET, 177)
      ifch = Thuilding Countside -7); heeld
         World = 17 Ke (building Counts we en ) 16+7) (
             6-: ( [ 6 + ] ] ( 6 + ] = 6-: ( 6 + ) : ( 6 + ) . ( 6 + ) . ( 6 + ) . ( 6 + )
                                                                    ハハイフ
                                                                     7117
     } buildinglown + side1- j
        creat,
      3
   for Lizzie Gulliylumkskez; itt) {
       I+ ( none, equals ( Williams see 21: ), yethere())) {
         For Ch = i, E. - Chailding Countsue 2-7) | Ext) (
            6-illiayside 2CE) = 6-ildinyside 2 [E+7];
                                                                    ハ・ハナフ
         willy com + sivez -- ;
        bieus,
```

CamScanner ile tarandı

1

```
LD Linker List Algerita Moulysis
Private NoderE) gerNade (Intimier) [
  Novercy nue = head;
  Porcintico ; irinsex to nove 1= not , +++ + ) {
       nuce smule, netty
   return nuve
               OLA) = 1 (n)=Q(n)
                                             TLA) : LAT 2
Public & yetlint insex) {
 176 index to 11 Index 7=511e 16
      throw new Zosex out o zamos Extention (Znteger. to string (insex));
NaterE7-nule = getNode (Index);
return nuce. dolog!
 ?
Poch) = win) = aind
P-6/16
                       insex, Elfem) 5
     usiel odel Lint
      if Linsex= = 0) (
          odd First (item);
     else (
         Modesis) node = germode (index -7).
         ossasteriorse "item";
3
    0(7) = (1) = (1)
public boulean odel ( Eltem) {
   odulsine , item) ;
   return the !
 のしつ)=ハレコ)=ロイ)
```

```
Private
        E remove fust (1(
and exty temp = herd!
 17 (delexactherd = enull) {
   delexentherel sherel;
   delever I ta = head,
 3
 else
  deleterster wett shend,
  deleventre e releithe very,
 (FCheal 1= null)[
   hed shedness;
  17c temp 1=null/6
   si've-,
   reform temp. why;
 else (
    return nell
3
                                          9
  7601 = 9
  O(1) = N(1) = O(7)
Public E remove Lint inder)
  izclasex to 11 lakex 7 fire) {
     throw new llegel Clarete . to strange mucepli,
 17 UNEX == 0) {
    return remove finitel!
```

return remove Atter (yekmuse cinier ->));

7(-)=4

O(7) = ULC7) = O(7)

4

```
Public word odd publing Sine 7 Children bulling, Int position ) {
 las revited;
  Looleen Flog = HUE;
  torck = position , & -length ; b++) {
     Furciso; ir building counts is ely 1++15
       17- Coulsing Side 7. get (i) , yet stritteresc) == {
                                                         クシ
          ++ 6~ 1:1.5ins. if e 7. yell) . yerEnlareo () 7= £) {
                                                         5
                                                         27
        Hoy = Folse 1
                                                         クラ
        breck;
                                                        2.0
 if LFlor== HUE) (
   bildingside 7. odd Coulding );
   building com LSide7++:
   building selstoft Areachsition).
   beilding.
  beilston sersively)
   renoinder = remoisson - wilding . yelenythe),
 essel
      System out, pivily (" The Zield if Full"),
3
                                                     5n2+n+ P
7(n)=5n2+n+p
 O(n2) = N(n2) = O(n2)
```

Pellic wild delete Billings ( string name) ドッナ・トノモニンド For ci= 0, 1 = 601/Stay com LSWe7, 14711 if Chance, equals (16 illings, we 7, yelli) ), yellowell )) { 6-ildingsive 7, remo weij; h building com a side 70-1 retra, 3 Forciasis building control e Lilty 12 Come experts Coulding sive 20 get(i), getNome(1)) buillingside ziremuceci); builting coun asive -- , break, T(n)= 10n+7 707 47 O(n) = run) = a(n) Linked List Alguritm Anlysis voice out Building side 7 LBuilding building building Ind position) int isoited, boolean 714 - Kne, For CE= position; & Tlenyhori E++16 Tarched i theilstay com estre 7 117416 ize willianswer wet(i) wex start Areoute & 200 ++ wilding siverigezei). gezendares 17=675 1.37 Flog = Folse, Lieuk, 7.7 7 if(Flog ==true)( bellingside7. odd (belling); bulllan Lount siden 4-4. wildly sextalares (1) remanser = remanser-building yezlenghal)

## Ocus) = vs + 3vs + v + y

```
Public will delete Billing 5(5+1mg none) &
 lation loui
  Fore indi it willnelsen MULT, ittle
    17 Come exerts (Childing She et yet (1)) yearmell) {
       building side firemove (1);
                                                              dilling con + side -1
       remoi
    3
 Furciso; its billing landsile Zrittle
    17 come exercis (wildingside 2, yet (1) ig extranci)) {
        buildingsive Eremoneci),
       building size landsise 2 -- 1'
        618261
                                                       202 46047
T(n)= 2n2+6n+7
```

## CO Linkellist Algoritm Analysis

```
Peblic void abliciting side a Colibra building int position 12

int (=0, k=0;

balen 71-7 = true;

int the = position i

Tos (k=position i k=tailding oper Lengths) + length k; ker) {

Tos (i=0; 1 touthing (our side 2) ref) {

if the iding side 2 in yes(i) in er Sort Areas (== position + x building side 2 income)

ger Entored) >= position

3

they = 2 lse;

income

if 2 (21-y = true) {

alling side 1 intil coulding );

alling side 3 intil coulding );

building isex sold force (position);

building isex sold force);

remodele = remoder - building interper (congition);

remodele = remoder - building interper (congition);

remodele = remoder - building interper (congition);
```

## T(n) = n1 + 2n2+ n++ O(n1) = n2(n3) = O(n1)