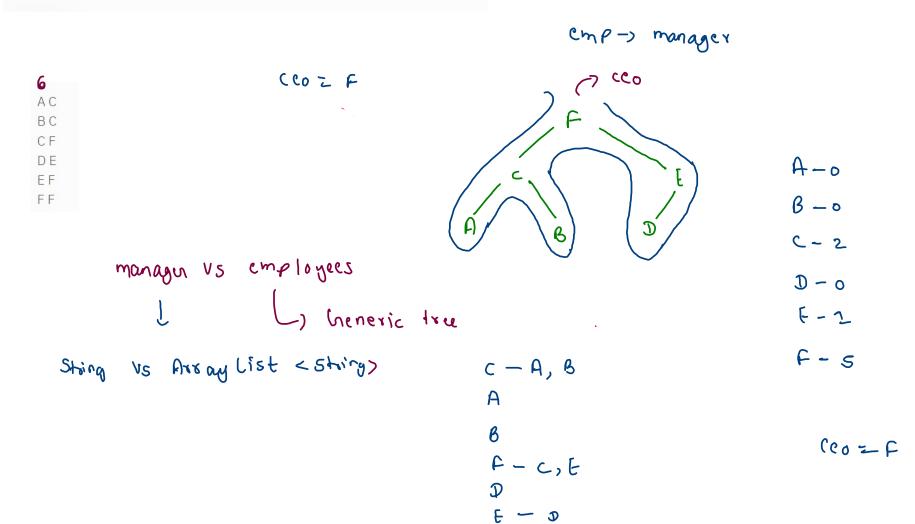
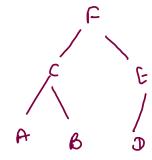
Number Of Employees Under Every Manager



```
for(String emp : map.keySet()) {
   String man = map.get(emp);
    if(emp.equals(man) == true) {
       ceo = emp;
        continue;
    if(gt.containsKey(emp) == false) {
        gt.put(emp,new ArrayList<>());
    if(gt.containsKey(man) == false) {
        ArrayList<String>list = new ArrayList<>();
       list.add(emp);
        gt.push(man,list);
   else {
        ArrayList<String>list = gt.get(man);
       list.add(emp);
        gt.push(man,list);
```



gt



C -> A,B

CCD

Find Itinerary From Tickets

GA Plan of journey

Chennai Banglore Bombay Delhi Goa Chennai Delhi Goa

Chen -> Bangalore

Bom -> Delhi

hoa-, chen

Duhi -, hoa

7600a -> Chen -> Bang Bom - , Delhi

Bombay -, Delhi -, waa-, chunai-,

Bangalore.

Linked list head

map. String Vs Boolean

Chen -> X Bary - X

STC = Bom bay

Bom -, U Delhi -> X

hoa -> X

```
for(String src : tickets.keySet()) {
    String dest = tickets.get(src);
    if(map.containsKey(src) == false) {
        map.put(src,true);
    else {
        map.put(src,map.get(src));
    map.put(dest,false);
String src = "";
for(String key : map.keySet()) {
    if(map.get(key) == true) {
        src = key;
        break;
```

```
//print the journey
while(tickets.containsKey(src) == true) {
    System.out.print(src + " -> ");
    src = tickets.get(src);
}
System.out.println(src + ".");
```

```
Chennai Banglore
Bombay Delhi
Goa Chennai
Delhi Goa
```

```
Chennai -> Jalse

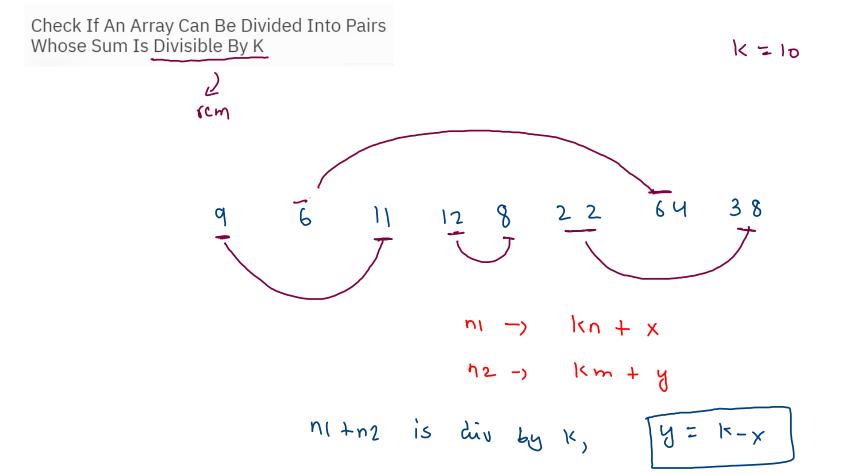
Bangalore -> False

Bombay -> true

Delhi -> Jalse

Voa -> lalse
```

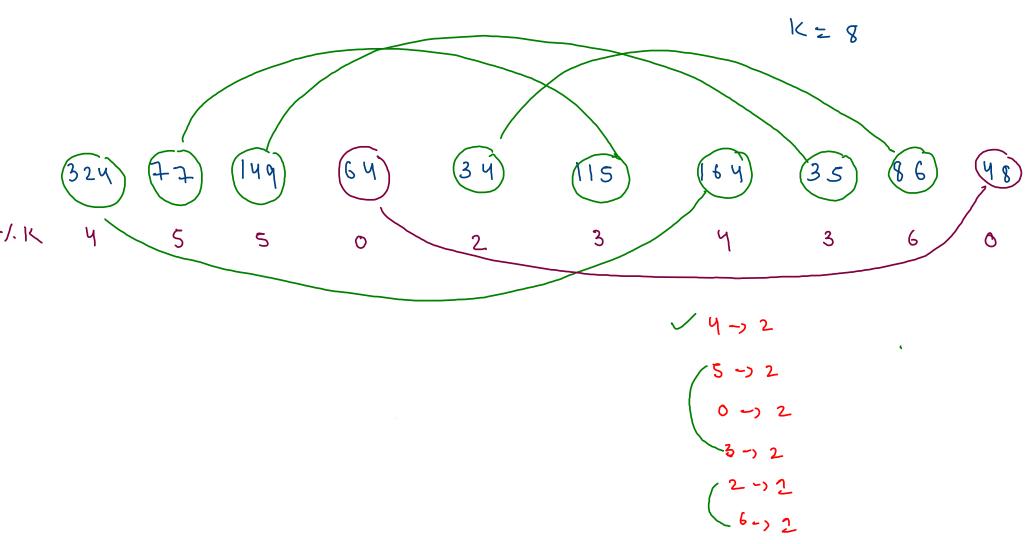
Bombay -> Delhi -> hoa-> chennai -> Bangalore.



T: o(n)

romaindus

Store



```
for(int rem : map.keySet()) {
    int freq = map.get(rem);
    if((k \% 2 == 0 \&\& rem == k/2) || rem == 0) {
        if(freq % 2 != 0) {
            ans= false;
            break;
    else {
        int f2 = map.getOrDefault(k-rem,-1);
        if(f2 == -1 || freq != f2) {
            ans = false;
            break;
}
System.out.println(ans);
```

```
30 62 10 90 42 89 29 9
0 7 0 0 2 9 9
2 -> 2
1-> 2
```

0 -> 3

Largest Subarray With Zero Sum

25 -) 6

48 -) 7

8 15 -2 2 -8 1 7 10 23

Jon = 3 \$ 7 10

Ps vs it's dirst occ

8-53 4-54

0->-1

10 -> 0

19-)1

-1 -> 8