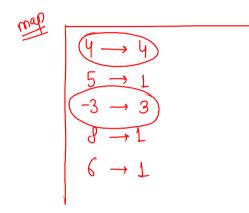


1 for (int i=0; ix over-length; i++) { if (map. containskey (avrli]) == false) [ map. put ( aur [i], 1); 3 else E map.put (amii), map.get (amii)+1);

## Same Number Same Frequency



```
\begin{bmatrix} Y_3 - 3 \\ -31 = 3 \end{bmatrix}
```

## traverse in hashmap

```
public static void SNSF(int[] arr, int n) {
    HashMap<Integer, Integer> map = new HashMap<>();
 rac{1}{2} for (int i = 0; i < n; i++) {
        if ( map.containsKey(arr[i]) == false ) {
            map.put( arr[i], 1 );
        } else {
            map.put( arr[i], map.get(arr[i]) + 1 );
    ArrayList<Integer> ans = new ArrayList<>();
   for (Map.Entry<Integer, Integer> e : map.entrySet() ) {
        int key = e.getKey();
        int val = e.getValue();
        if ( Math.abs( key ) == val ) {
            ans.add(key);
    Collections.sort(ans);

    for (int i : ans) {
        System.out.println(i);
```

## Character and it's Frequency

```
\begin{bmatrix} a, -, *, & , -, Z \end{bmatrix}
Character, Integer a \rightarrow 1
                      public static void charFreq(char[] arr, int n) {
                          HashMap<Character, Integer> map = new HashMap<>();
                         for (int i = 0; i < n; i++) {
                               if ( map.containsKey(arr[i]) == false ) {
                                   map.put( arr[i], 1 );
                               } else {
                                   map.put( arr[i], map.get(arr[i]) + 1 );
                          ArrayList<Character> ans = new ArrayList<>();
                          for (Map.Entry<Character, Integer> e : map.entrySet()) {
                               char key = e.getKey();
                               int val = e.getValue();
                               ans.add(key);
                       Collections.sort(ans);
                         for (char c : ans) {
                               System.out.println( c + " " + map.get(c) );
```

Mote:

amotised 0(1)

```
public static void main(String[] args) {
      HashMap<String, ArrayList<String>> map = new HashMap<>();
                                                                         add a21 Akhil Developer Tech
      Scanner scn = new Scanner(System.in);
      int t = scn.nextInt();
                                                                        add a34 anuj TeamLead Hr
      for (int i = 0; i < t; i \neq t) {
                                                                          update a34 Manager
          String ope = scn.next();
          if (ope.equals( "add" ) ) {
                                                                         delete a21
              String empId = scn.next();
                                                                          show a34
              String empName = scn.next();
              String emp0cc = scn.next();
              String empDep = scn.next();
 a
                                                             operation = "add"

empId = "a21"

empName = "Akhil"

emp Occ = "Developer"

empDep = "Tech"
              ArrayList<String> arr = new ArrayList<>();
              arr.add(empName);
              arr.add(emp0cc);
              arr.add(empDep);
              map.put( empId, arr );
          } else if ( ope.equals( "update" ) ) {
 Ь
           String empId = scn.next();
            String empOcc = scn.next();
              map.get( empId ).set(1, empOcc);
          } else if ( ope.equals( "delete" ) ) {
C
              String empId = scn.next();
              map.remove(empId);
          } else if ( ope.equals( "show" ) ) {
              String empId = scn.next();
              if ( map.containsKey(empId) ) {
                  ArrayList<String> ans = map.get( empId );
d
                                                                   empId= "asy"
empOcc= "Manager"
                  for (String s : ans) {
                                                           CI
                      System.out.print(s + " ");
              } else {
                  System.out.print("-1");
              System.out.println();
```

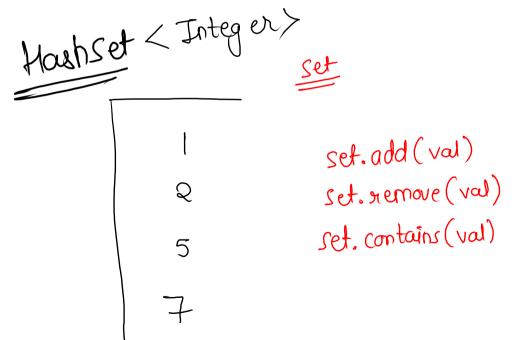
Story, AL

"Q21" -> [AKhil" | "Developer" | map. 9 et ("e134"). Set (1, "Manager");

## Two Sum 14

$$\frac{\text{on}}{2}$$
  $\frac{2}{7}$   $\frac{7}{6}$ 

$$\frac{\chi_1 + \chi_2 = = \text{target}}{\chi_2 = = \text{target} - \chi_1}$$



our 
$$\boxed{2}$$
  $\boxed{3}$   $\boxed{6}$   $\boxed{4}$   $\boxed{7}$   $\boxed{3}$   $\boxed{6}$   $\boxed{4}$   $\boxed{7}$   $\boxed{3}$   $\boxed{3$ 

