

Missing numbers

$$A1 = [1, 1, 2, 5]$$

$$A2 = [1, 2, \cancel{3}, \cancel{4}]$$

Step 1

$$\text{output} \rightarrow [\cancel{1}, \cancel{3}, 4]$$

$f_1 \rightarrow$	
key	freq
1	2
2	1
3	1
5	1

$f_2 \rightarrow$	
key	freq
1	1
2	1
3	1
4	1

Concept of prefix and suffix array

$$\rightarrow arr = [1, 4, 3, 2, 5]$$

$$\text{Prefix Sum: } [1, 5, 8, 10, 15] \leftarrow$$

array that contains sum of all the elements from 0 to its positions.

int sum = 0;

```
for (i=0; i<n; i++) {
    sum += arr[i];
    prefix[i] = sum;
}
```

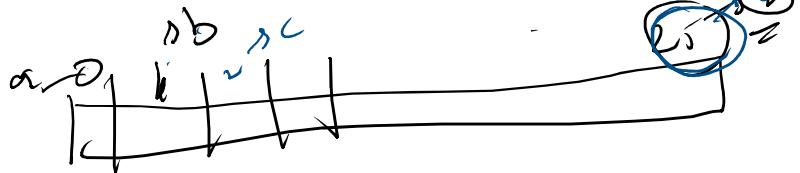
5	9	2	6	7
5	9	12	18	25

⇒ suffix

cur	4	1	i	3
	4	1	2	3
suffix	13	9	8	3

⇒ In questions involving english letters, we generally make free array of size 26,

then a hash map



$$n - y = B \Rightarrow n = \underline{y + B}$$

$$y - n = B \Rightarrow \textcircled{n} \underline{y - B}$$