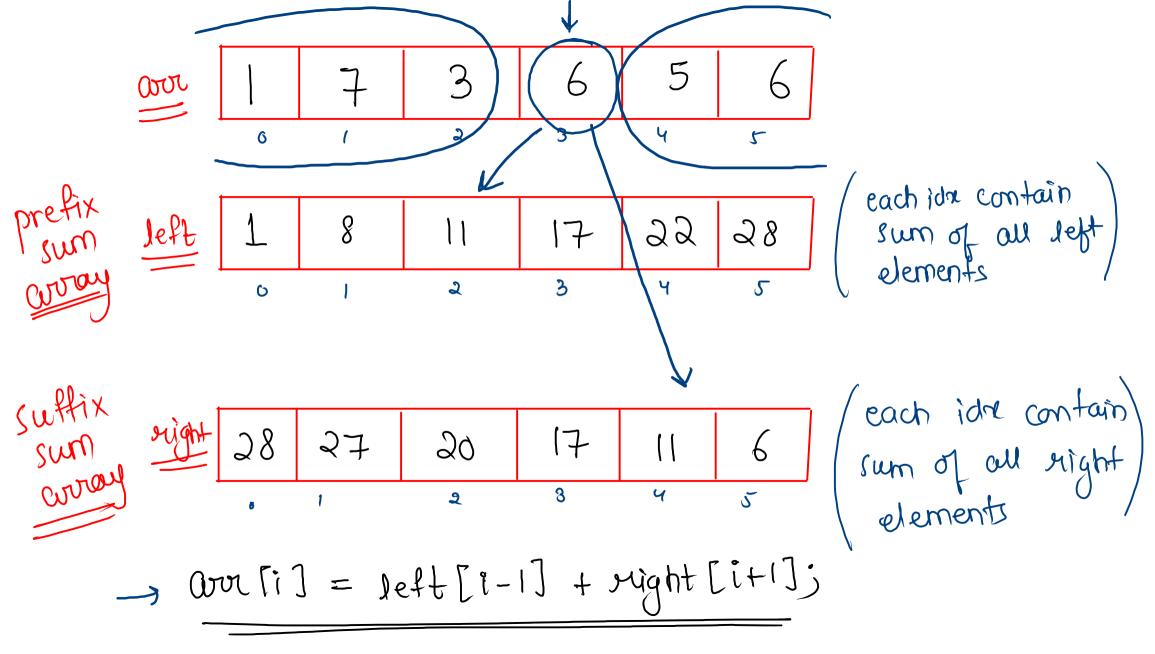
prot: - where sum of all left ele.

are equal to sum of all Find Pivot Index 1 ouight ele. pivot = 3 left sum = 8 right sum = 24 20 17



```
public static int pivotIndex(int[] arr, int n) {
      rint[] left = new int[n];
left[0] = arr[0];
for (int i = 1; i < n; i++) {
    left[i] = left[i - 1] + arr[i];</pre>
      -int[] right = new int[n];
right[n - 1] = arr[n - 1];

for (int i = n - 2; i >= 0; i--) {

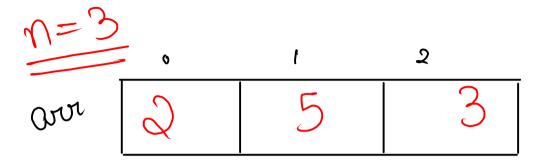
    right[i] = right[i + 1] + arr[i];
if (n > 0 & right[1] == 0) {

return 0;
if ( n > 0 && left[n - 2] == 0 ) {
    return n - 1;
}
                                                                         i=0, leftsum=0

rightsum=3

i=2, right sum=0
        for (int i = 1; i < n - 1; i++) {
            if (left[i - 1] == right[i + 1]) {
           return i;
        return -1;
```

Product of Elements Except Itself



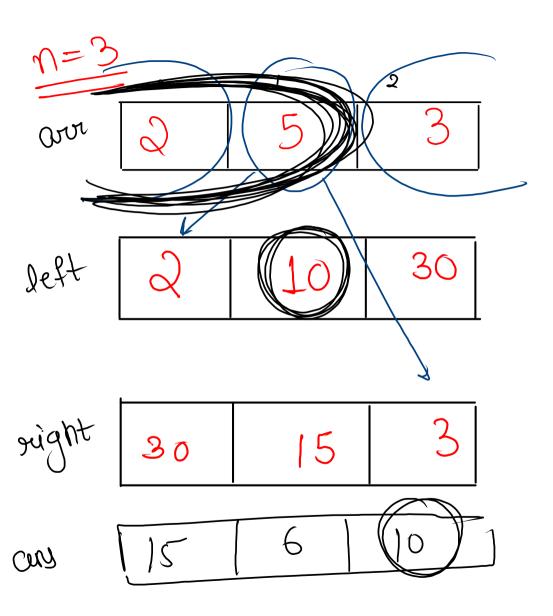
$$i=0$$
, $5*3=15$
 $i=1$, $2*3=6$
 $i=2$, $2*5=10$

prefix product coron

2 10	30
------	----

Suffix

30	15	3
----	----	---



```
T. C = O(N) y is size of corray
S. C = O(N) J is size of corray
```

```
public static int[] productExceptItself(int[] arr, int n) {
    int[] left = new int[n];
    left[0] = arr[0];
    for (int i = 1; i < n; i++) {
        left[i] = left[i - 1] * arr[i];
    int[] right = new int[n];
    right[n - 1] = arr[n - 1];
    for (int i = n - 2; i >= 0; i--) {
        right[i] = right[i + 1] * arr[i];
    int[] ans = new int[n];
    ans[0] = right[1];
    ans[n - 1] = left[n - 2];
    for (int i = 1; i < n - 1; i++) {
        ans[i] = left[i - 1] \star right[i + 1];
    return ans;
```

