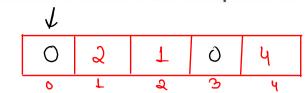
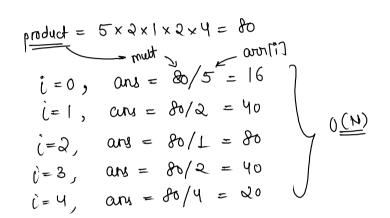
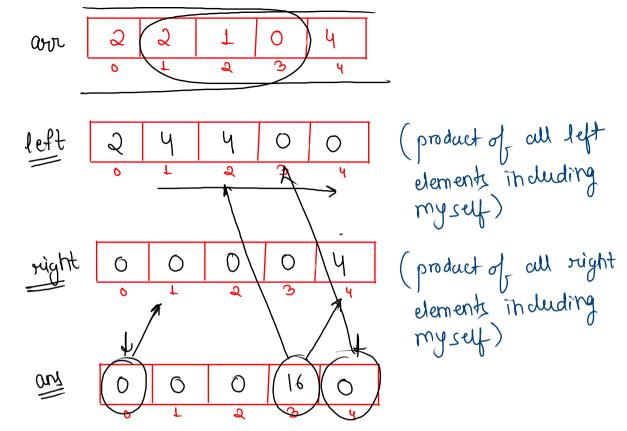
Product of Elements Except Itself

OX.







```
// product of all left elements including myself
int[] left = new int[n];
left[0] = arr[0];
                                                                                3
                                                                                               5
                                                                am
   for (int i = 1; i < n; i++) {
                                                                                      2
                                                                                               3
                                                                         0
        left[i] = left[i - 1] * arr[i];
2 // product of all right elements including myself
                                                                                                         60
                                                                                               30
  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];
                                                                                 60
                                                                                        20
                                                                                                10
  int[] ans = new int[n];
                                                                                                3
                                                                                       2
rans[0] = right[1]; \leftarrow
\begin{bmatrix} ans[0] = right[1]; & \longleftarrow \\ ans[n - 1] = left[n - 2]; & \longleftarrow \end{bmatrix}
for (int i = 1; i < n - 1; i++) {
        ans[i] = left[i - 1] \star right[i + 1];
                                                                                        30
                                                                                20
                                                                                                 12
                                                                                                         30
                                                                our
                                                                                                 3
                                                                                        2
```

```
public static void prod(int[] arr) {
    int n = arr.length;
   // product of all left elements including myself
   int[] left = new int[n];
   left[0] = arr[0];
   for (int i = 1; i < n; i++) {
        left[i] = left[i - 1] * arr[i];
   // product of all right elements including myself
    int[] right = new int[n];
   right[n - 1] = arr[n - 1];
   for (int i = n - 2; i \ge 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] * right[i + 1];
   // print answer array
   for (int i = 0; i < n; i++) {
        System.out.println( ans[i] );
```

