Problem Link:

<https://leetcode.com/problems/product-of-the-last-k-numbers/?envType=daily-question&envId=2025-02-14>

Solution:

class ProductOfNumbers {

public:

vector<int> v;

int z;

ProductOfNumbers() {

v.push\_back(1);

z = -1;

}

void add(int num) {

if(num == 0)

{

z = v.size();

v.push\_back(1);

}

else

{

v.push\_back(v.back() \* num);

}

}

int getProduct(int k) {

int n = v.size();

if(z >= n - k)

{

return 0;

}

return v[n - 1] / v[n - 1 - k];

}

};

/\*\*

\* Your ProductOfNumbers object will be instantiated and called as such:

\* ProductOfNumbers\* obj = new ProductOfNumbers();

\* obj->add(num);

\* int param\_2 = obj->getProduct(k);

\*/