Problem Link:

<https://leetcode.com/problems/minimum-number-of-operations-to-move-all-balls-to-each-box/?envType=daily-question&envId=2025-01-06>

Solution:

class Solution {

public:

vector<int> minOperations(string boxes) {

int n = boxes.size();

vector<int> v(n, 0);

int lops = 0, lballs = 0;

for(int i = 0; i < n; ++i)

{

v[i] += lops;

if(boxes[i] == '1')

{

lballs++;

}

lops += lballs;

}

int rops = 0, rballs = 0;

for(int i = n - 1; i >= 0; --i)

{

v[i] += rops;

if(boxes[i] == '1')

{

rballs++;

}

rops += rballs;

}

return v;

}

};