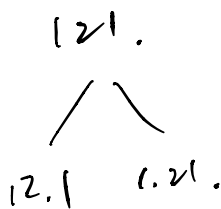


decode ways.



$dp[i] = dp[i-1], \text{ if } d_1 > 0.$

$+ dp[i-2], \text{ if } d_2 \geq 10 \wedge d_2 \leq 26.$

$dp[0] = 1$

$dp[1] = 1$

\downarrow
 \times

const decodeWays = (nums: string) => {

let x = 1

let y = parseInt(nums[0]) > 0 ? 1 : 0;

let output = y;

for (let i = 2; i <= nums.length; i++) {
 output = 0;

const d₁ = parseInt(nums.substring(i-1, i));

const d₂ = parseInt(nums.substring(i-2, i));

if (d₁ > 0) {

output += y;

}

if (d₂ >= 10 && d₂ <= 26) {

output += x;

}

x = y;

y = output;

}

return output;

}.