Problem Link:

<https://leetcode.com/problems/final-prices-with-a-special-discount-in-a-shop/?envType=daily-question&envId=2025-03-13>

Solution:

**class Solution {**

**public:**

**vector<int> finalPrices(vector<int>& prices) {**

**int n = prices.size();**

**vector<int> v(prices);**

**stack<int> s;**

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

**{**

**while(!s.empty() && prices[s.top()] >= prices[i])**

**{**

**int j = s.top();**

**s.pop();**

**v[j] = prices[j] - prices[i];**

**}**

**s.push(i);**

**}**

**return v;**

**}**

**};**