

## FINAL PRICES WITH A SPECIAL DISCOUNT IN SHOP

```
class Solution {  
    public int[] finalPrices(int[] prices) {  
        int n = prices.length;  
        int[] res = prices.clone(); // start with original prices  
        Stack<Integer> stack = new Stack<>(); // store indices  
  
        for (int i = 0; i < n; i++) {  
            while (!stack.isEmpty() && prices[stack.peek()] >= prices[i]) {  
                int idx = stack.pop();  
                res[idx] = prices[idx] - prices[i];  
            }  
            stack.push(i);  
        }  
  
        return res;  
    }  
}
```