The Algorithm Design Canvas

Problem name: Counting valleys



Constraints	Q	Code
* mountain: sequence of consecutive steps AS. Start: U End: D * valley: sequence of consecutive steps BS. Start: D End: U * 2 <= n <= 10^6 * s[i] belongs {U, D}		
[U, D, D, D, U, D, U, U]		
Ideas	Ŷ	
* check inputs validity * check if not last position * unitsFromSeaLevel = 0; valleys = 0 (starting point) * loop on array * if curr=D -> if at sea level -> possibleValley++,	O(n)	
	O(n)	
Test Cases ✓		