## The Algorithm Design Canvas

Problem name: Jumping on the Clouds



Constraints	<b>€</b>	Code	<b>&gt;</b>
<ul> <li>* jump only on safe clouds</li> <li>* Emma can jump 2 or 1 positions to reach a safe cloud</li> <li>* we receive 2 inputs: n -&gt; length, c -&gt; clouds</li> <li>* c.length === n</li> <li>* 2&lt;= n &lt;= 100</li> <li>* c[i] -&gt; only 0 or 1</li> <li>* c[0] and c[n -1] always 0 ALWAY POSSIBLE TO WIN!</li> </ul>			
Ideas	8		
* check inputs validity -> fit constraints * counter = 0 * while loop until counter < n - 1 * verify longer distance (+2) * if is a safe cloud -> move to counter safe position: counter + 2(check length) * if not a safe cloud -> move to counter + 1 * no matter what we increase jumps++   Test Cases  * invalid inputs: 0 * n: 4, c: [0,1,0,0] -> 2 * n: 8, c: [0,1,0,1,0,0,1,0] -> 4 * n: 3 c: [0,1,0]	O(log(n)) or O(n) if we verify array elements  O(n)		
* really big array of clouds			