

```
int hateville(int[ ] D, int n)
    int[ ] DP ← new int[ ]0n
    DP[0] ← 0
    DP[1] ← DP[1]

    from  $i \leftarrow 2$  until  $n$  do
         $DP[i] \leftarrow \max(DP[i - 1], DP[i - 2] + D[i])$ 

    return  $DP[n]$ 
```