

```
int hateville(int[ ]  $D$ , int  $n$ )  
┌  
    int[ ]  $DP \leftarrow$  new int[ ]0n  
     $DP[0] \leftarrow 0$   
     $DP[1] \leftarrow DP[1]$   
  
    from  $i \leftarrow 2$  until  $n$  do  
    ┌     $DP[i] \leftarrow \max(DP[i - 1], DP[i - 2] + D[i])$   
  
    return  $DP[n]$   
└
```