

```
int fibonaccilter(int  $n$ )
```

```
     $DP \leftarrow$  new int[ ]0 $n$ 
```

```
     $DP[0] \leftarrow DP[1] \leftarrow 1$ 
```

```
    from  $i \leftarrow 2$  until  $n$  do
```

```
         $DP[i] \leftarrow DP[i - 1] + DP[i - 2]$ 
```

```
    return  $DP[n]$ 
```