

```
int fibonacci(int  $n$ )  
    int  $DP_0 = 1$   
    int  $DP_1 = 1$   
    int  $DP_2 = 1$   
  
    from  $i = 2$  until  $n$  do  
         $DP_0 = DP_1$   
         $DP_1 = DP_2$   
         $DP_2 = DP_0 + DP_1$   
  
    return  $DP_2$ 
```