$Vir(n) = \begin{cases} \hline 0 & \text{if } n=0 \\ \hline 1 & \text{if } h=1 \end{cases}$  Vir(n-1) + Vir(n-2)

filonacci sequence

Virahanka numbers

 $Vir: |WU\xio\} \rightarrow |WU\xio\}$  0,1,1,2,3,5,8,13...

$$fact(n) = \begin{cases} 1 & \text{if } n=0 \\ fact(n-1) + n & \text{otherwise} \end{cases}$$

$$succ(n) = m+1$$
 $add(m,h) = \begin{cases} m & \text{if } m=0 \end{cases}$ 
 $succ(add(m-1,h))$ 
 $otherwise$ 

$$mul(m,n) = \begin{cases} 0 & \text{if } m = 0 \\ n & \text{if } m = 1 \end{cases}$$

$$m & \text{if } m = 1 \end{cases}$$

$$add(m, mul(m, n - 1))$$

$$m & \text{otherwise}$$

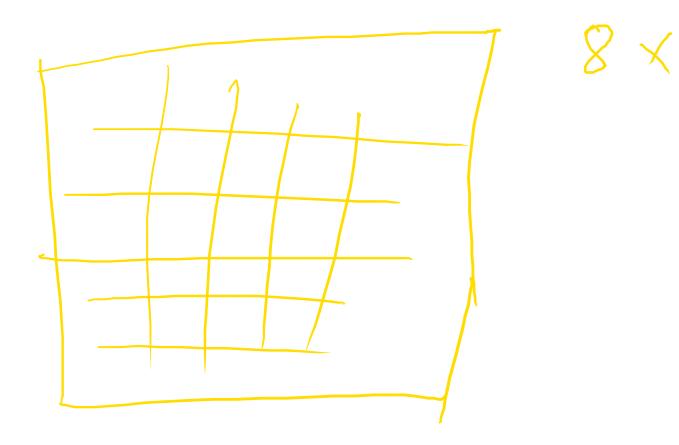
$$m & \text{otherwise}$$

$$m & \text{otherwise}$$

$$mul(m, pow(m, n - 1))$$

$$wtherwise$$

foo(n) = n+foo(n-1)



place 8 queens 50 that no queen is attacking another queen