FIBONACCÍ

1,1,2,3,5,8,13,21,34...

PATTERN EXISTS ALL

OVETL IN NATURE

PINEAPPLES

STEMS ON BRANCHES

EVEN A STREET IN UHAH

(SANDY)

FB(n) = (FB(n-1) + FB(n-2)

But ...

WHAT ABOUT FIB (1)?

WE NEED A START/STOP

IN COMPUTER SCIENCE THIS

IS CALLED THE BASE CASE

INSERT < WUB, WUB> HERE

MATHY DEFINITION FIB (N) = Sill ni FIB (n-1) + FIB (n-2)

```
public int fis (int num)
  1F (num ==0 | num ==1)
      return FiB (num-1) + FiB (num-2)
```

$$F_{IB}(5) \Rightarrow$$
 $F_{IB}(4) + F_{IB}(3) \Rightarrow$
 $F_{IB}(3) + F_{IB}(2) + F_{IB}(2) + F_{IB}(1) \Rightarrow$
 $F_{IB}(1) + F_{IB}(6)$
 $F_{IB}(1) + F_{IB}(6)$

ERR... WCK SLOOWW. WASTE OF RESOURCES ESP U. BETER METHODS

MATA: FIB(n)= (1-VE)~

MEMOIZATION:

STORE CAICULATED VALUES P

CHECK FIRST

AKA USE AN ARRA/P