

fibonacci

1, 1, 2, 3, 5, 8, 13, 21, 34 →

$a=0$   
 $b=1$  }  $a+b=1$

$a=1$   
 $b=1$  }  $a+b=2$

$a=1$   
 $b=2$  } → 3

$a=2$   
 $b=3$  } → 5

$a=3$   
 $b=5$  } → 8

$a=5$   
 $b=8$  } → 13

$a=b$   
 $b=a+b$

Fibonacci  
 $a=0, b=1$

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

$a=0$   
 $b=1$  } = 1

$a=1$   
 $b=1$  } → 2

temp =  $b=1$   
 $b=a+b$   
 $a=temp$   
 $a=1$   
 $b=2$  } → 3  
 $a=2$   
 $b=3$  } → 5

# Factorial

$$5! = 5 \times 4 \times 3 \times 2 \times 1 \times 0$$

num = 5  
fact = 1

num = 4  
fact = 5

num = 3  
fact = 20

Temp = num

fact = 1

fact = 5 + 1

fact = 5 + 4

num

+3

+2

+1

num = temp - 1

4

num = 4 - 1

num = 3 - 1

2