$$\begin{array}{lll} \text{ first } & \text{ first$$

```
fact (6) {
      return 6x fact (5)
fact (6)

(b)

(b)

(c)

(d)

(e)
                        - 4×(4 act(3))
                                - 3x fact (2)
                       fact (6) = 1
  (3) 3x facta) 2 = 6
                       -oxfacf(-1)
                               (-1×far+(-2)
                                     fib (o) = O
                                     fib (1): = 1
                                        f13(1)+
                                         F16 (0)
                              fib (3) = fib (2) + fib (1.)
                             fib(.n) = fib(n-1)+fib(n-2)
```

$$fib(5) = fib(4) + fib(3)$$

$$fib(3) + fib(2)$$

$$fib(2) + fib(1)$$

$$fib(1) + fib(0)$$

$$fib(1) + fib(0)$$

$$fib(1) + fib(0)$$

$$fib(1) + fib(0)$$

Time complexity space complexity

() big (0)

()
$$f(x) = f(x) =$$

Ffor(intizojizn; i+t) s. Tror (int j=0 jjen j /++) s cout c ("hi") n time. 3 ntimes f ntimes f ntime i=0 -> ntimes. ---- n(4 times) 151 _____n times i=2 n times T(n) q (mxn) operation (= n-1) n times O(n2) -) quadratic time compl. D(109n) -> 7210009 621 O(nxlogn) constant time. C = /+/-> O(n!) -> very slow (2) /2 very 8/0w.