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                              froblem 6
                 int fibrec (int n) {
Recursive:
                    if (nz=0) return 0;
                    if (n==1) return 1;
                    return fib Rec (n-1) + fib Rec(n-2); }
  T(n) = T(n-1) + T(n-2) + O(s)
       let n=10
                               fibRec(8)
   fib Rec (9)
         fibrec(7)
                     FibRec gets called 2 times =7 exponential increas
at each function call,
                    T(n) = O(2^n)
Non-Recursive
                       int fibloop (int n) {
                           if (n 2 = 0) return 0;
                           if (n==1) return 1
                           int fib 1 = 1, fib 2 = 0, fi = fib 1 + fib 2
                           for (int i=2; i zn; i++){
                             fib 2 = fib 1;
                              fib 1 = fi;
                              fi = f:b1 + fibZ; }
                         return fi; }
                   O(1) Statements => don't rely on input
Mon recursive - lots of
For loop approaches size N 50 T(n) = O(N)
```