

Multiple Recursion Calls

$f()$
 {

$f()$
 {

$f()$
 {

$f()$ } 2 times



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take U forward

- 2 LECTURE 3 22:46 Re 2. Problems on Recursion | Strivers A2Z DSA Course
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- 3 LECTURE 2 18:14 Re 3. Parameterised and Functional Recursion | Striver...
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- 4 LECTURE 4 19:48 Re 4. Problems on Functional Recursion | Strivers A2Z DSA...
PROBLEMS ON FUNCTIONAL RECUSION 19:48 take U forward

- 5 LECTURE 5 16:45 Re 5. Multiple Recursion Calls | Problems | Strivers A2Z DSA...
MULTIPLE RECUSION CALLS PROBLEMS 16:45 take U forward

- 6 LECTURE 6 25:01 L6. Recursion on Subsequences | Printing...
RECUSION ON SUBSEQUENCES PRINTING SUBSEQUENCES 25:01 take U forward

- L7. All Kind of Patterns in

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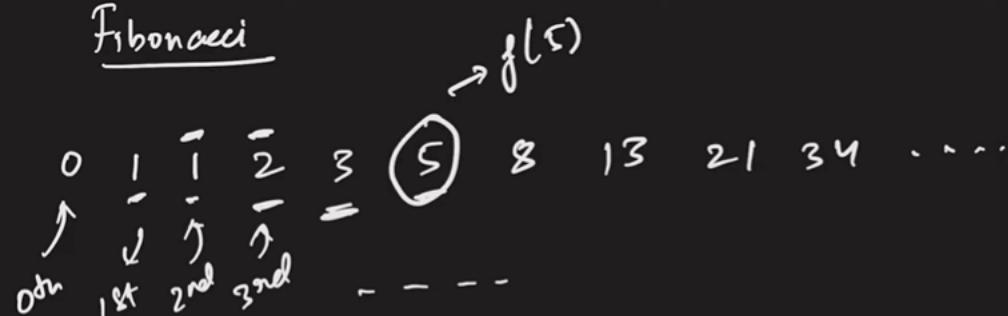
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Fibonacci

$f(5)$

 $0 \quad 1 \quad 1 \quad 2 \quad 3 \quad 5 \quad 8 \quad 13 \quad 21 \quad 34 \quad \dots$
 0th 1st 2nd 3rd - - -

$\underline{N} \rightarrow \underline{f(N)}$ → N^{th} fibonacci no

$$\begin{aligned} f(3) &\rightarrow 2 & f \\ \underline{f(4)} &\rightarrow 3 \end{aligned}$$



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LECTURE 2

22:40 take U forward

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18:14 Re 3. Parameterised and Functional Recursion | Striver...

PROBLEMS ON FUNCTIONAL RECURSION

LECTURE 4

19:48 Re 4. Problems on Functional Recursion | Strivers A2Z DSA...

MULTIPLE RECURSION CALLS PROBLEMS

LECTURE 5

16:45 Re 5. Multiple Recursion Calls | Problems | Strivers A2Z DSA...

RECURSION ON SUBSEQUENCES PRINTING SUBSEQUENCES

LECTURE 6

25:01 Re 6. Recursion on Subsequences | Printing...

ALL KIND OF PATTERNS

LECTURE 7

23:40 L7. All Kind of Patterns in

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1

$\overbrace{0 \quad 1 \quad 1 \quad 2 \quad 3}^{\text{1st 2nd 3rd}} = \textcircled{5}$ 8 13 21 34 ...

N. $\rightarrow \underline{f(N)}$ $\rightarrow N^{\text{th}}$ Fibonacci no

f(3) $\rightarrow 2$ $f(5) = f(4) + f(3)$

f(4) $\rightarrow 3$



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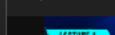
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$f(n) \rightarrow f(n-1) + f(n-2)$

$f(n)$

{
 $y(n \leq 1)$

return n;

return $f(n-1) + f(n-2)$;

}



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LECTURE 6 25:01

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$f(n) \rightarrow f(n-1) + f(n-2)$

$f(n)$

{
 $\hat{y}(n \leq 1)$

 return n;

last = $f(n-1)$

slast = $f(n-2)$

return last + slast;

}



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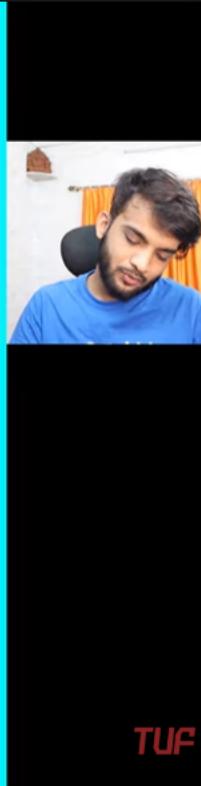


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```

jL()
{
    if (n <= 1)
        return n;
    last = f(n-1)
    slast = f(n-2)
    return last + slast;
}
main()
{
    n ← 4
    print(f(4))
}

```



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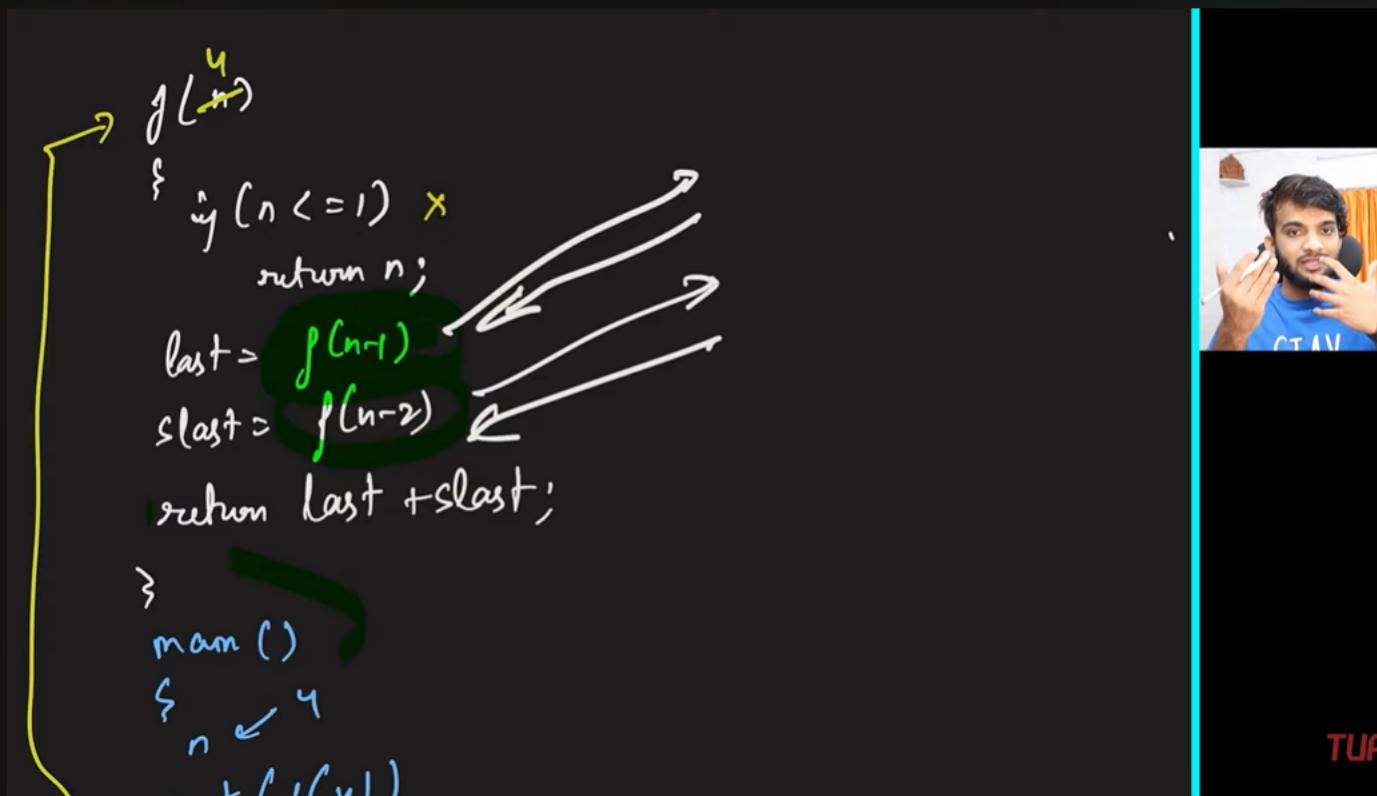
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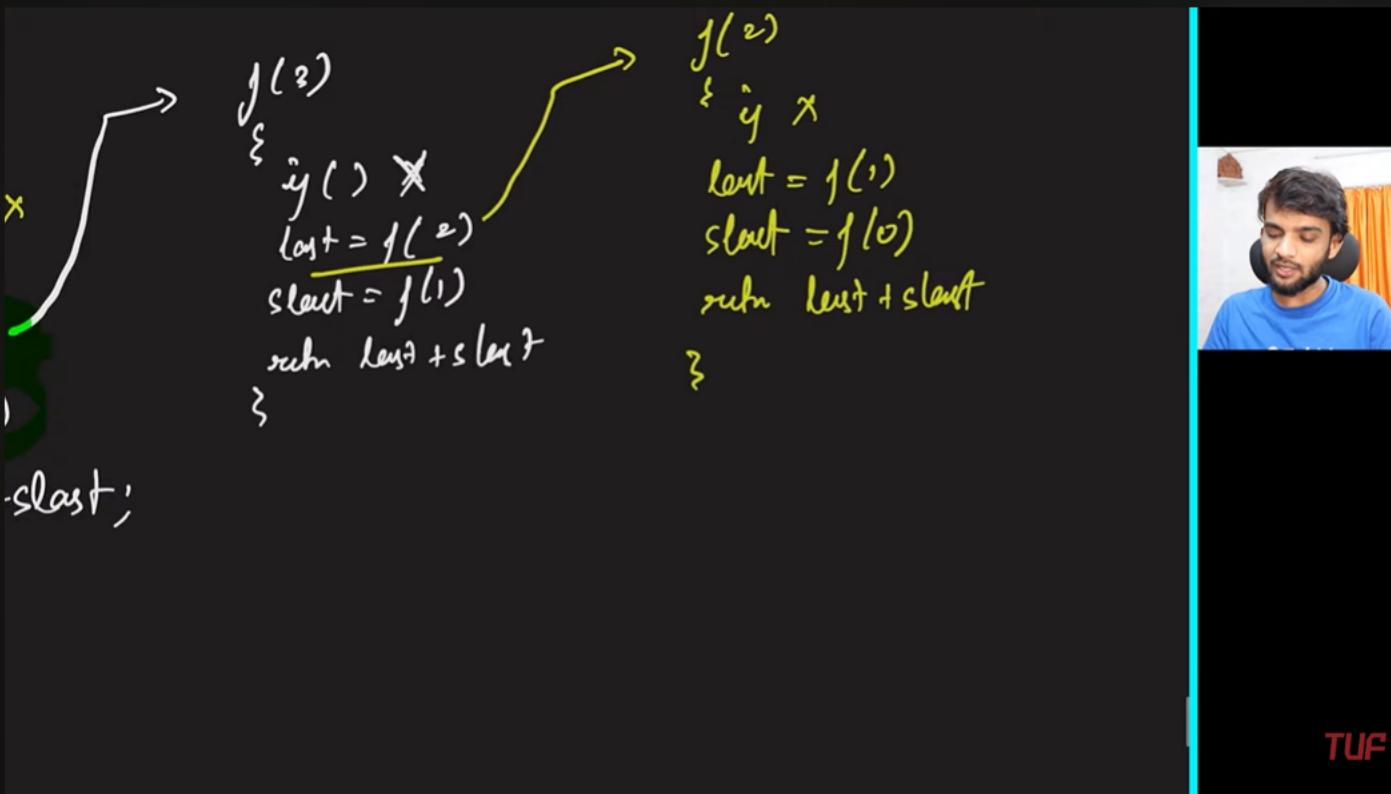
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PROBLEMS ON FUNCTIONAL RECURSION

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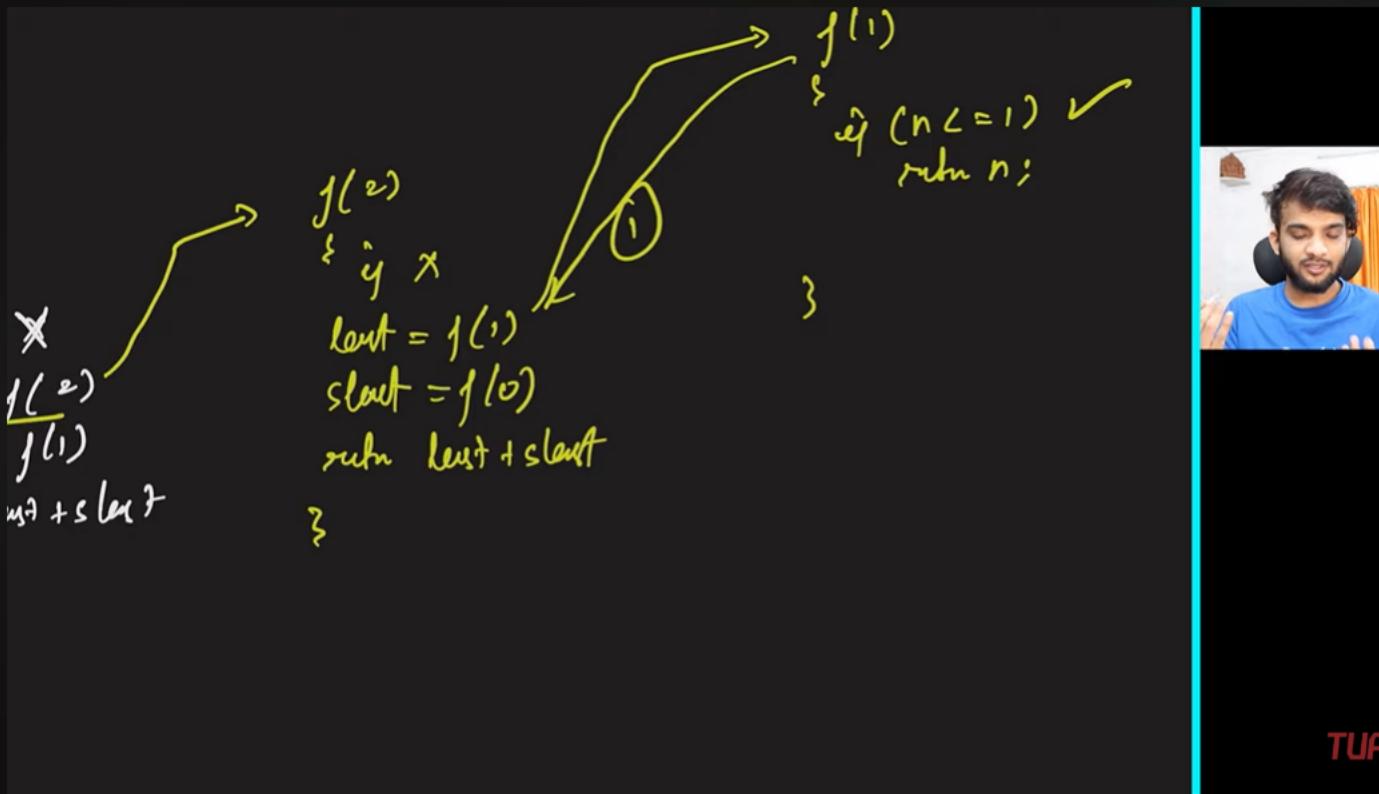
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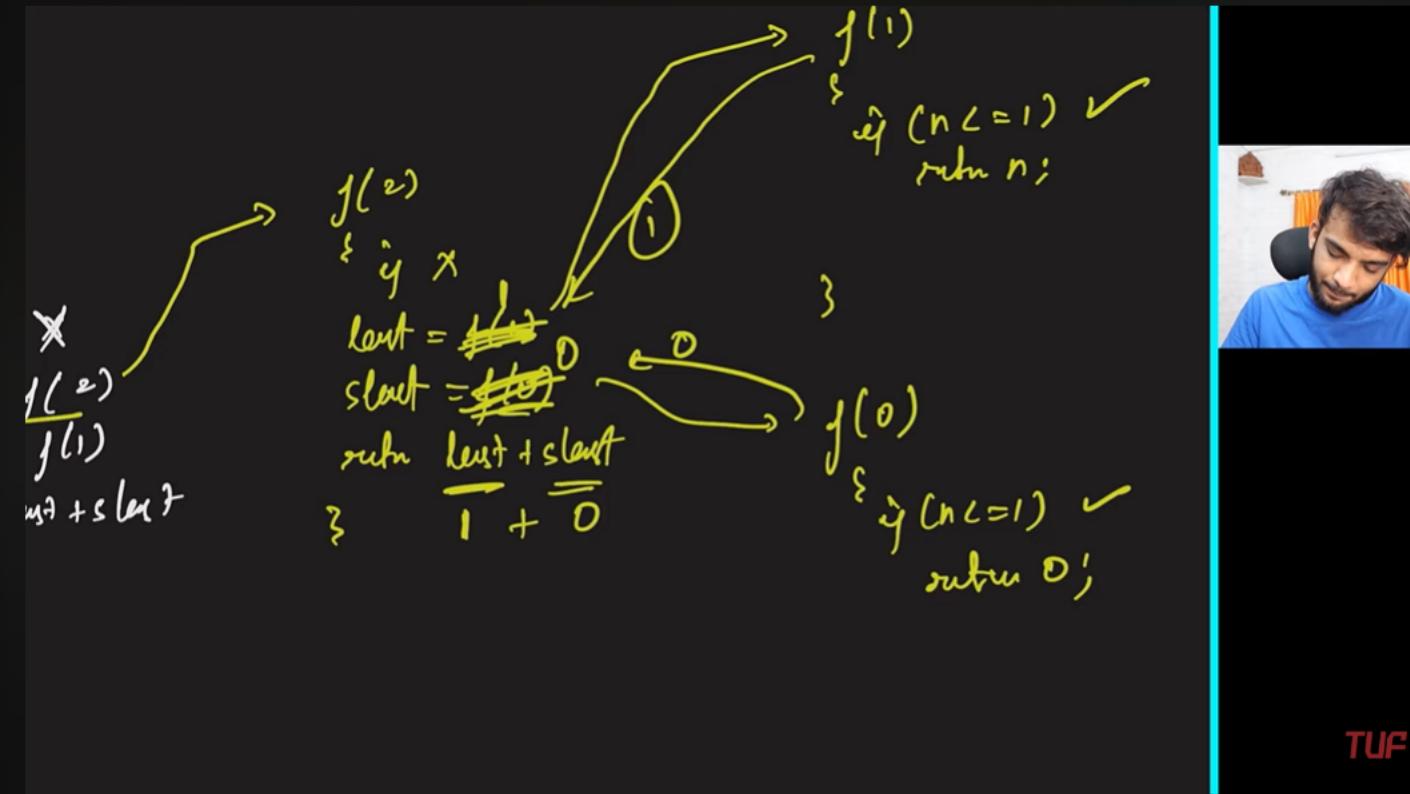
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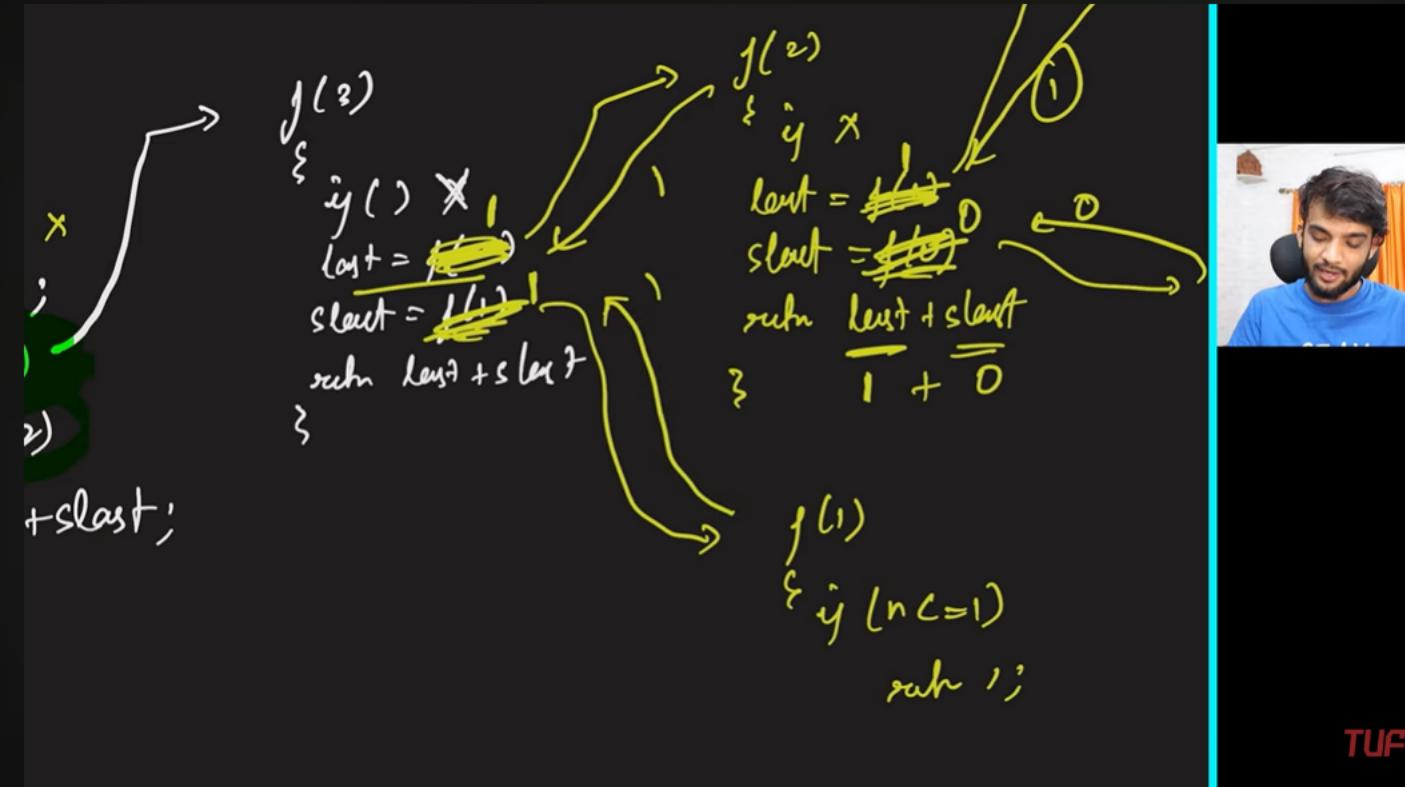


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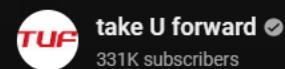
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LECTURE 4

19:48

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LECTURE 5

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LECTURE 7

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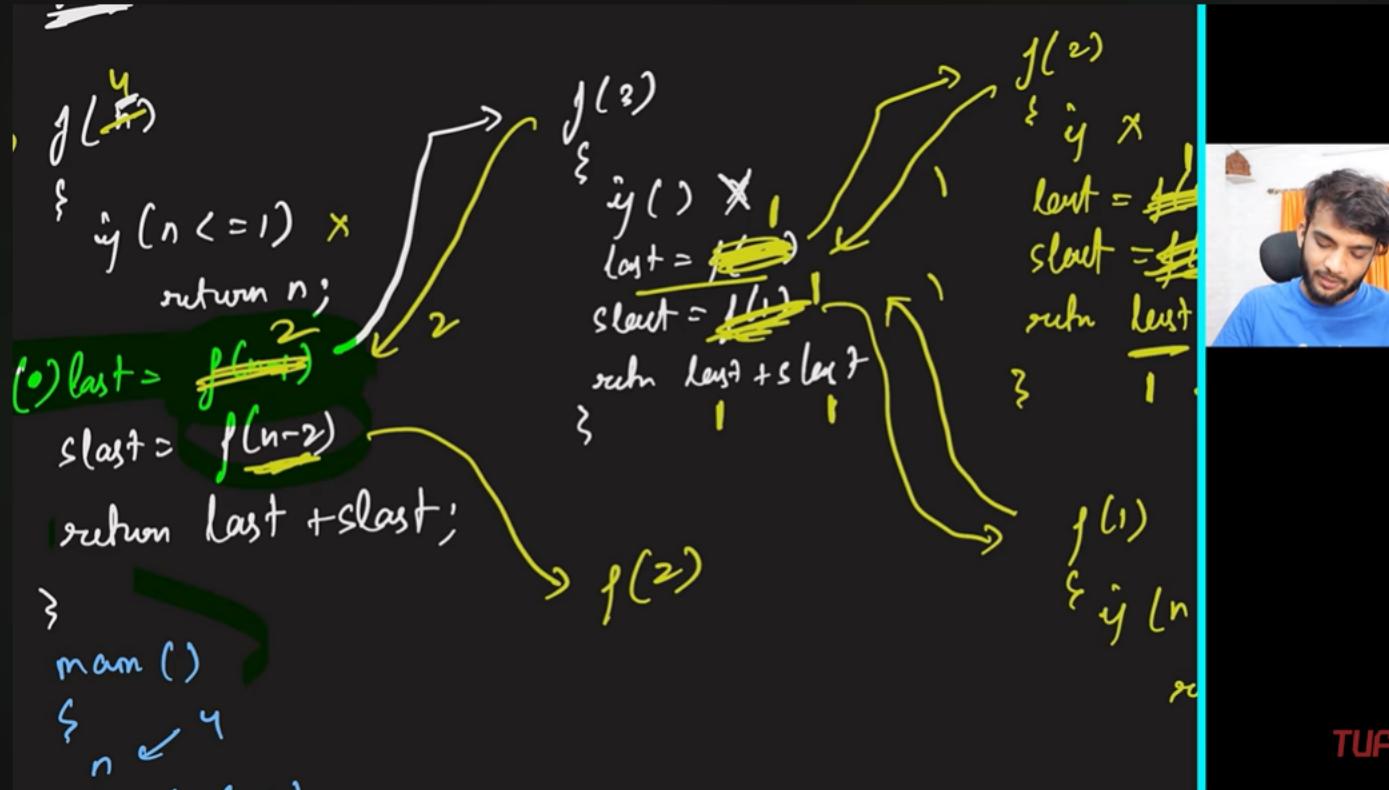


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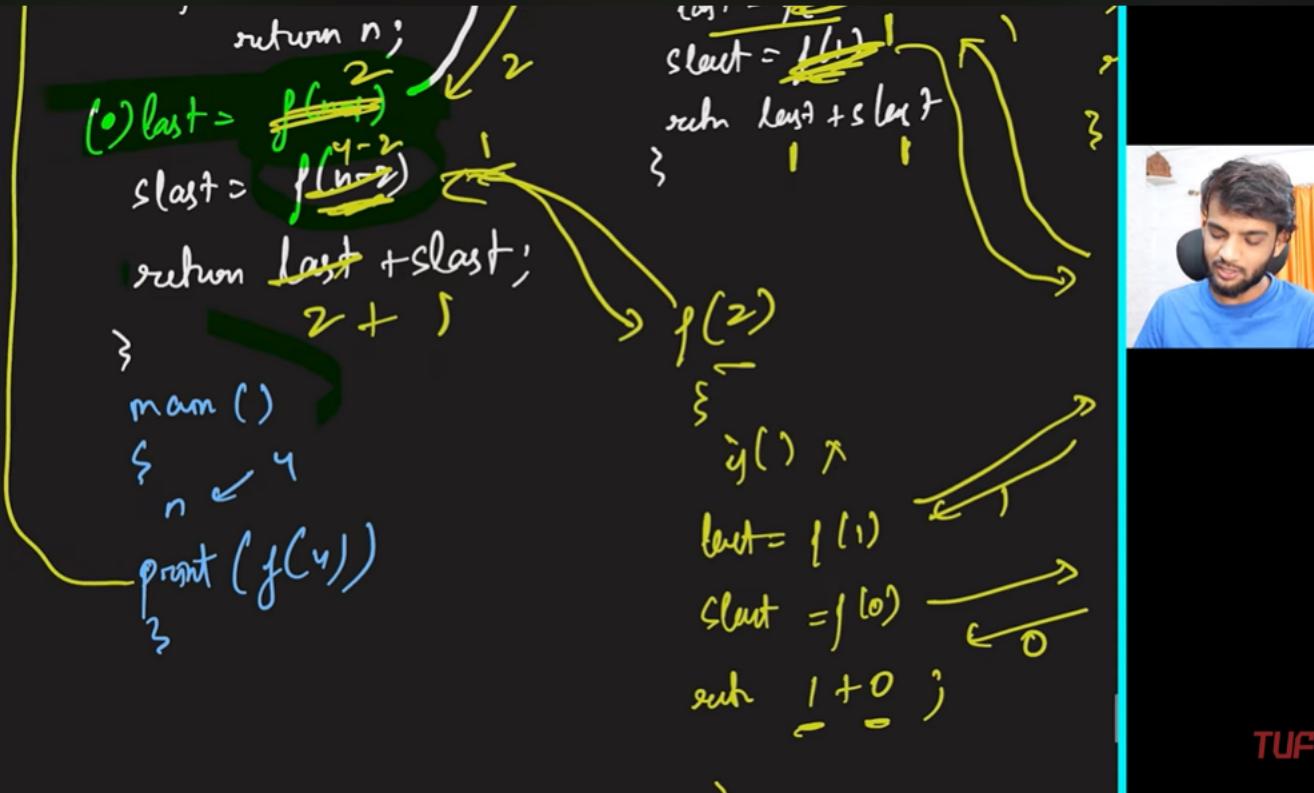
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$f(0) = 0$

$f(1) = 1$

$f(2) = f(0) + f(1) = 1$

$f(3) = f(1) + f(2) = 2$

$f(4) = f(2) + f(3) = 3$

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

$f(6) = f(4) + f(5) = 8$

$f(7) = f(5) + f(6) = 13$

$f(8) = f(6) + f(7) = 21$

$f(9) = f(7) + f(8) = 34$

$f(10) = f(8) + f(9) = 55$

$f(11) = f(9) + f(10) = 89$

$f(12) = f(10) + f(11) = 144$

$f(13) = f(11) + f(12) = 233$

$f(14) = f(12) + f(13) = 377$

$f(15) = f(13) + f(14) = 610$

$f(16) = f(14) + f(15) = 987$

$f(17) = f(15) + f(16) = 1597$

$f(18) = f(16) + f(17) = 2584$

$f(19) = f(17) + f(18) = 4181$

$f(20) = f(18) + f(19) = 6771$

$f(21) = f(19) + f(20) = 10946$

$f(22) = f(20) + f(21) = 17923$

$f(23) = f(21) + f(22) = 28854$

$f(24) = f(22) + f(23) = 46777$

$f(25) = f(23) + f(24) = 75631$

$f(26) = f(24) + f(25) = 122368$

$f(27) = f(25) + f(26) = 198099$

$f(28) = f(26) + f(27) = 320467$

$f(29) = f(27) + f(28) = 518566$

$f(30) = f(28) + f(29) = 839033$

$f(31) = f(29) + f(30) = 1357596$

$f(32) = f(30) + f(31) = 2217631$

$f(33) = f(31) + f(32) = 3575227$

$f(34) = f(32) + f(33) = 5792458$

$f(35) = f(33) + f(34) = 9367685$

$f(36) = f(34) + f(35) = 15155343$

$f(37) = f(35) + f(36) = 24520728$

$f(38) = f(36) + f(37) = 40075451$

$f(39) = f(37) + f(38) = 64595902$

$f(40) = f(38) + f(39) = 104671853$

$f(41) = f(39) + f(40) = 169267755$

$f(42) = f(40) + f(41) = 273935508$

$f(43) = f(41) + f(42) = 443171263$

$f(44) = f(42) + f(43) = 717102771$

$f(45) = f(43) + f(44) = 1160274534$

$f(46) = f(44) + f(45) = 1877377265$

$f(47) = f(45) + f(46) = 3037651809$

$f(48) = f(46) + f(47) = 4914999074$

$f(49) = f(47) + f(48) = 7952650883$

$f(50) = f(48) + f(49) = 12867649957$

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$f(84) = f(82) + f(83) = 179471104381287181$

$f(85) = f(83) + f(84) = 284353656562575897$

$f(86) = f(84) + f(85) = 463824760943863078$

$f(87) = f(85) + f(86) = 748178417506438975$

$f(88) = f(86) + f(87) = 1211903178450272053$

$f(89) = f(87) + f(88) = 1959981656956504108$

$f(90) = f(88) + f(89) = 3171884815406776161$

$f(91) = f(89) + f(90) = 5131866471363280269$

$f(92) = f(90) + f(91) = 8263751285769556430$

$f(93) = f(91) + f(92) = 13395617761132816699$

$f(94) = f(92) + f(93) = 21659339542265633029$

$f(95) = f(93) + f(94) = 35055057283498449728$

$f(96) = f(94) + f(95) = 56714397825764082757$

$f(97) = f(95) + f(96) = 91770455109262532485$

$f(98) = f(96) + f(97) = 148484852934987015242$

$f(99) = f(97) + f(98) = 240255308034259547727$

$f(100) = f(98) + f(99) = 388740150969246562469$

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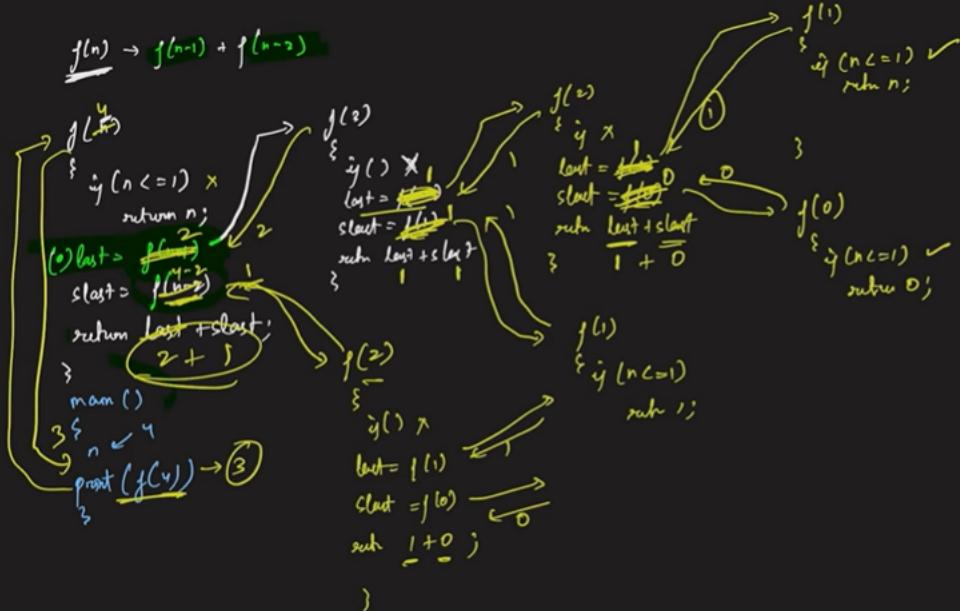


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$$\lfloor \frac{f(i)}{2} \rfloor = f(i-1) + f(\lceil \frac{i-1}{2} \rceil)$$



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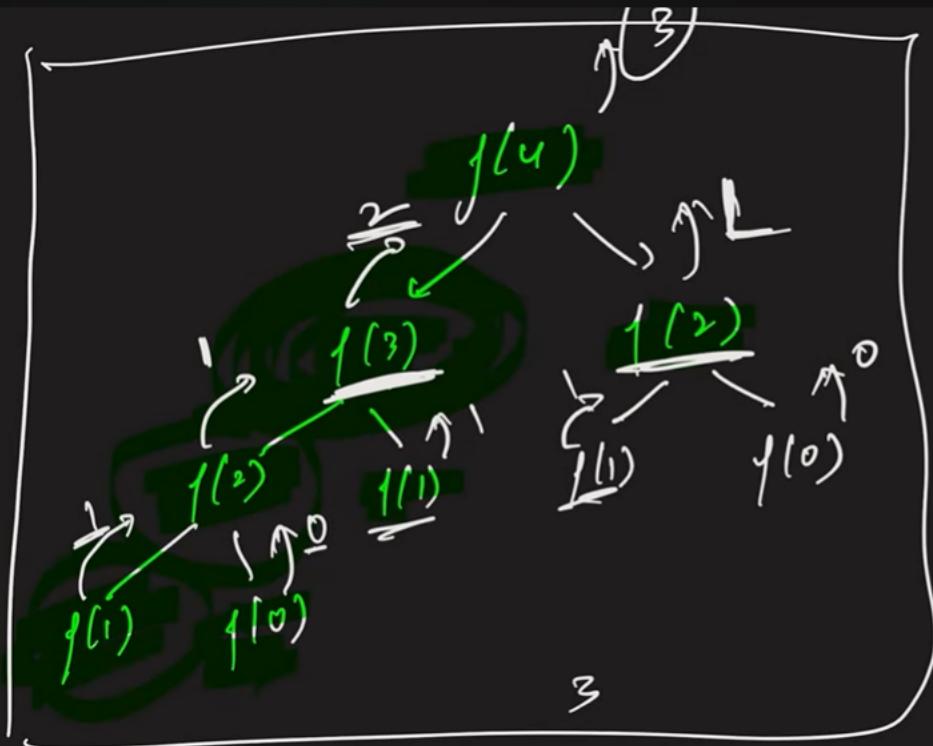
5 MULTIPLE RECURSION CALLS PROBLEMS 16:45 take U forward

6 RECURSION ON SUBSEQUENCES PRINTING SUBSEQUENCES 25:01 take U forward

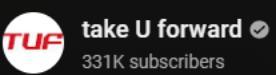
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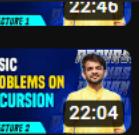
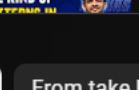
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-  3 **PARAMETERISED AND FUNCTIONAL RECURSION** **LECTURE 3** 18:14 take U forward
Re 3. Parameterised and Functional Recursion | Striver... 18:00
-  4 **PROBLEMS ON FUNCTIONAL RECURSION** **LECTURE 4** 19:48 take U forward
Re 4. Problems on Functional Recursion | Strivers A2Z DSA... 19:48
-  5 **MULTIPLE RECURSION CALLS PROBLEMS** **LECTURE 5** 16:45 take U forward
Re 5. Multiple Recursion Calls | Problems | Strivers A2Z DSA... 16:45
-  6 **RECURSION ON SUBSEQUENCES** **LECTURE 6** 25:01 take U forward
L6. Recursion on Subsequences | Printing... 25:01
-  7 **ALL KIND OF PATTERNS IN** **LECTURE 7** take U forward
L7. All Kind of Patterns in 25:01

All

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00:13
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2



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```
code.cpp x stdc++.h x
#include<bits/stdc++.h>
using namespace std;
int f(int n) {
    if(n <= 1) return n;
    int last = f(n-1);
    int slast = f(n-2);
    return last + slast;
}
int main() {
#ifndef ONLINE_JUDGE
    freopen("input.txt", "r", stdin);
    freopen("output.txt", "w", stdout);
#endif
    cout << f(4);
    return 0;
}
```

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PROBLEMS ON FUNCTIONAL RECUSION

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LECTURE 4 19:48

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MULTIPLE RECUSION CALLS PROBLEMS

Re 5. Multiple Recursion Calls | Problems | Strivers A2Z DSA...

LECTURE 5 16:45

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RECUSION ON SUBSEQUENCES PRINTING SUBSEQUENCES

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LECTURE 6 25:01

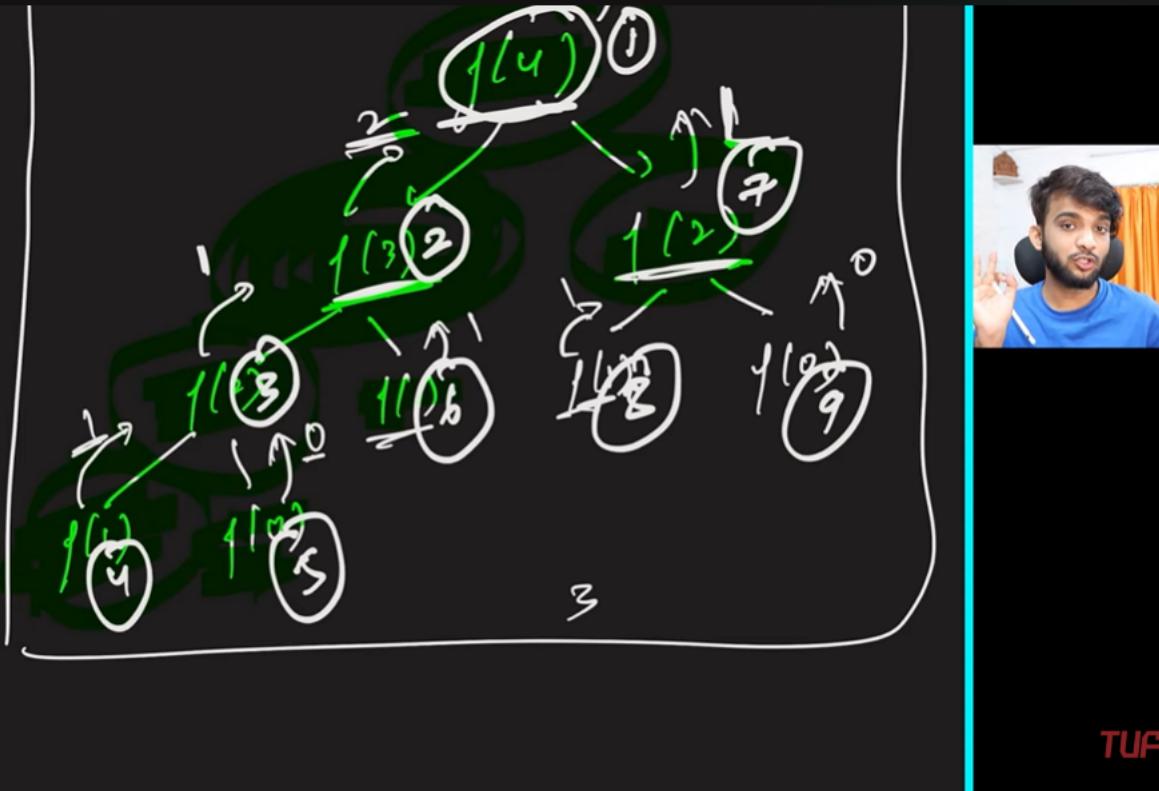
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L7. All Kind of Patterns in

LECTURE 7 25:01

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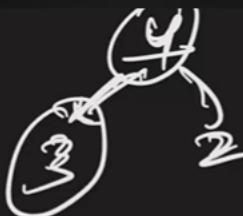
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2

$$\frac{2}{n} \quad \frac{2}{n-1} \quad \frac{2}{n-2}$$



$TC \rightarrow (2^n)$ exponential

$y \rightarrow$

$$2^u = 16$$



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