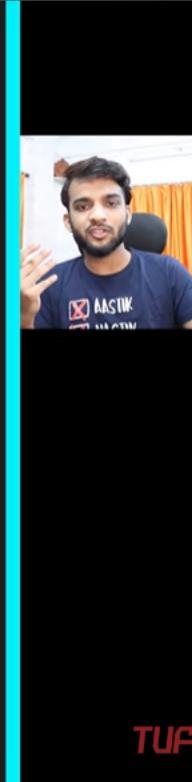


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on Problems

- Print Name 5 times
- Print linearly from 1 to N
- Print from N to 1.
- Print linearly from 1 to N
(But By Backtrack)
- Print from N to 1
(By Backtrack)



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INTRODUCTION TO RECUSION
1 LECTURE 1 22:46
Re 1. Introduction to Recursion | Recursion Tree | Stack Spac...
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BASIC PROBLEMS ON RECUSION
► 2 LECTURE 2 22:04
Re 2. Problems on Recursion | Strivers A2Z DSA Course
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PARAMETERISED AND FUNCTIONAL RECUSION
3 LECTURE 3 18:14
Re 3. Parameterised and Functional Recursion | Striver...
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PROBLEMS ON FUNCTIONAL RECUSION
4 LECTURE 4 19:48
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5 LECTURE 5 16:45
Re 5. Multiple Recursion Calls | Problems | Strivers A2Z DSA...
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RECUSION ON SUBSEQUENCES PRINTING SUBSEQUENCES
6 LECTURE 6 25:01
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(By Bechtmark)

Q Print N times using Recursion

Base condition
void f(i, n) {
 if (i > n) return;
 print("nay");
 f(i+1, n);
}

main()
{
 int n;
 cin >> n;
 f(1, n);
}

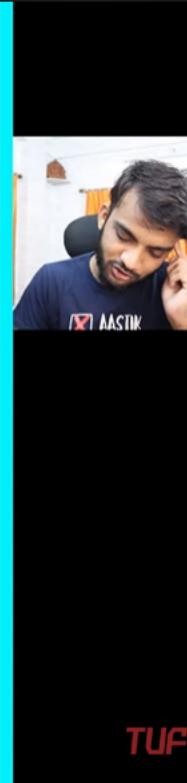
n = 3

f(2, 3)
if (2 > 3) return;
print("nay");
f(i+1, n);

)

Output

nay
nay



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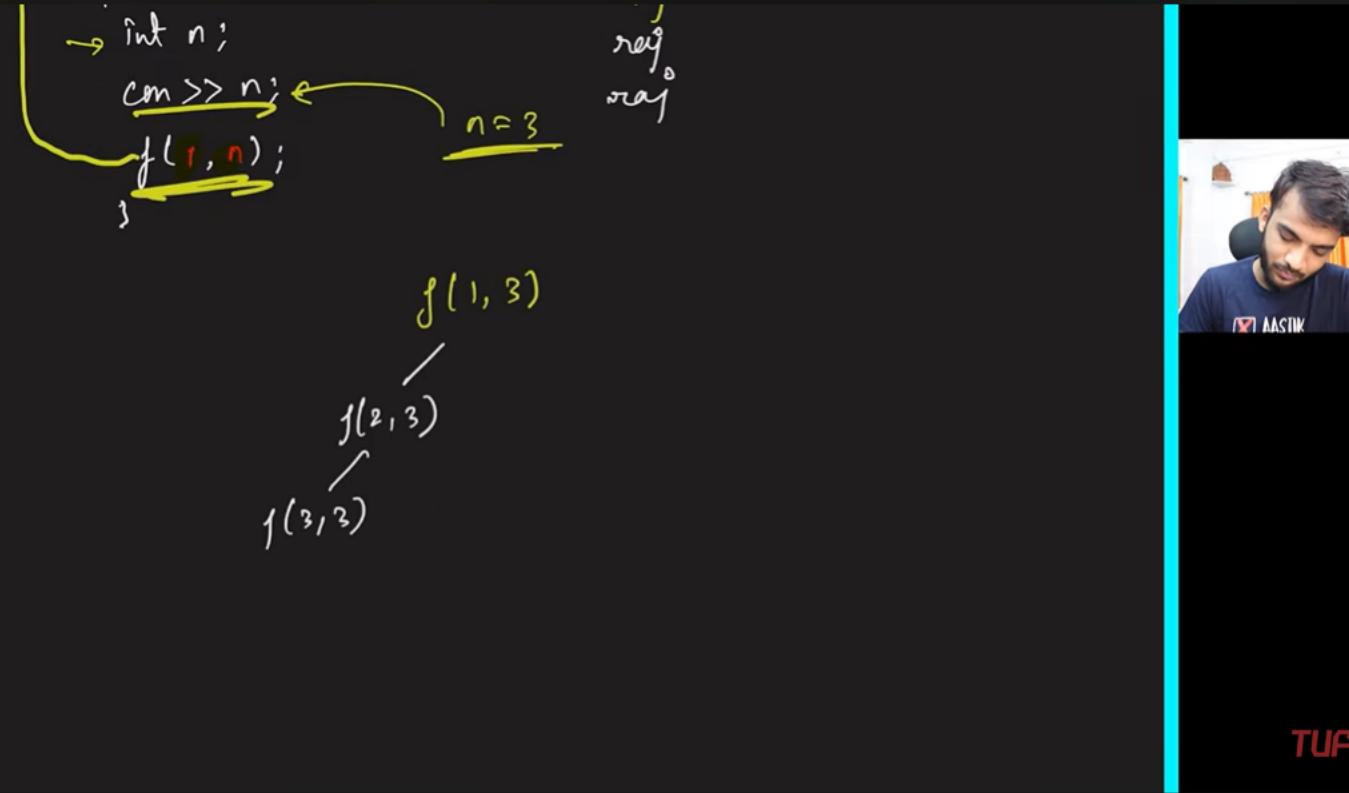
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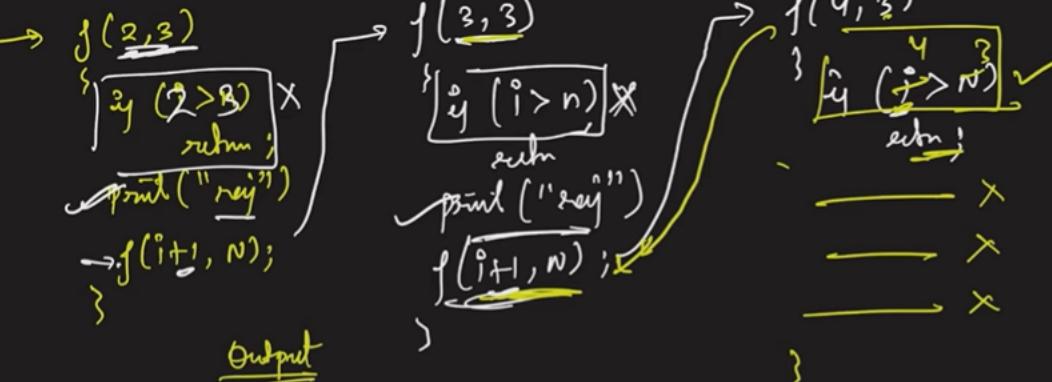


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times using Recursion



Output

ray

ray

ray

$n = 3$

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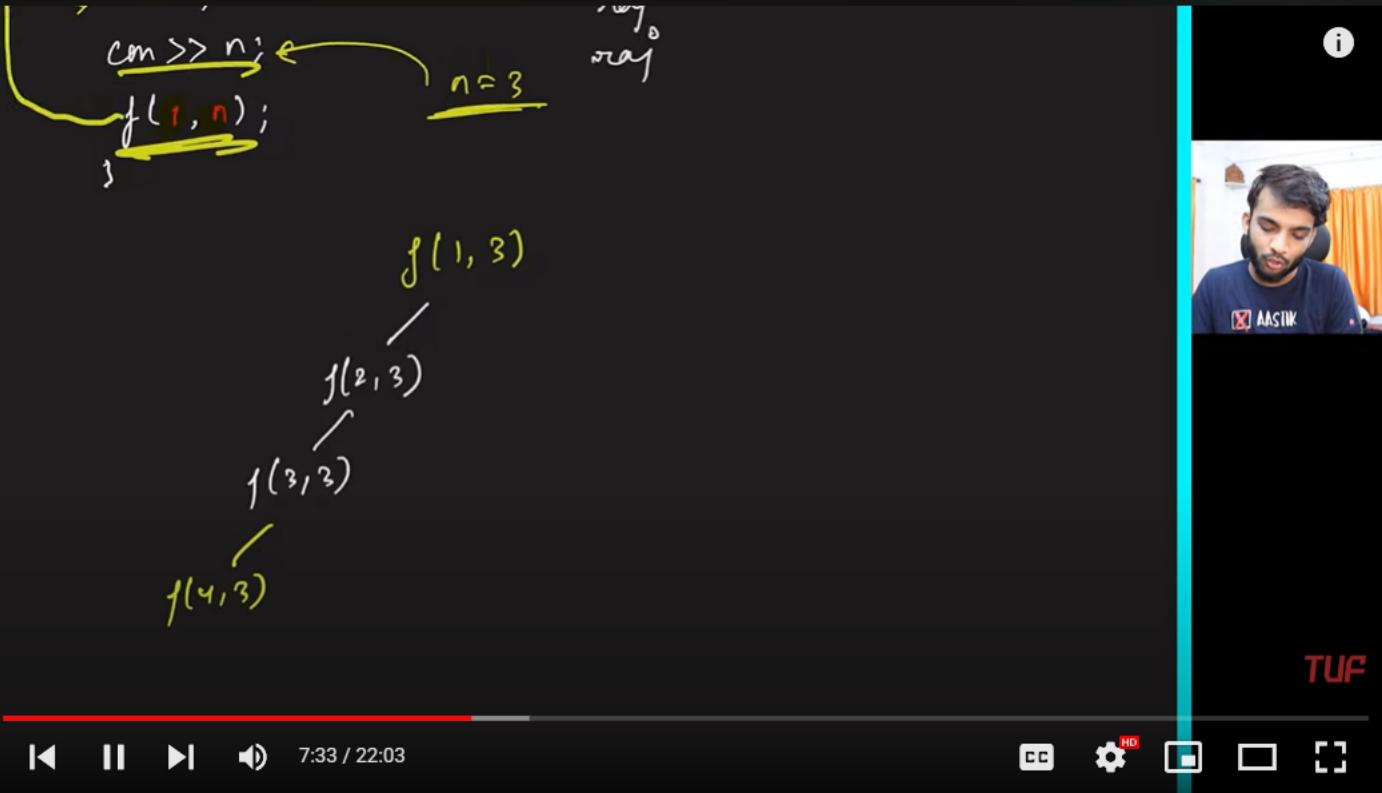


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- PROBLEMS ON FUNCTIONAL RECURSION** | Strivers A2Z DSA... | 19:48 LECTURE 4
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- RECURSION ON SUBSEQUENCES | PRINTING SUBSEQUENCES** | Strivers A2Z DSA... | 25:01 LECTURE 6

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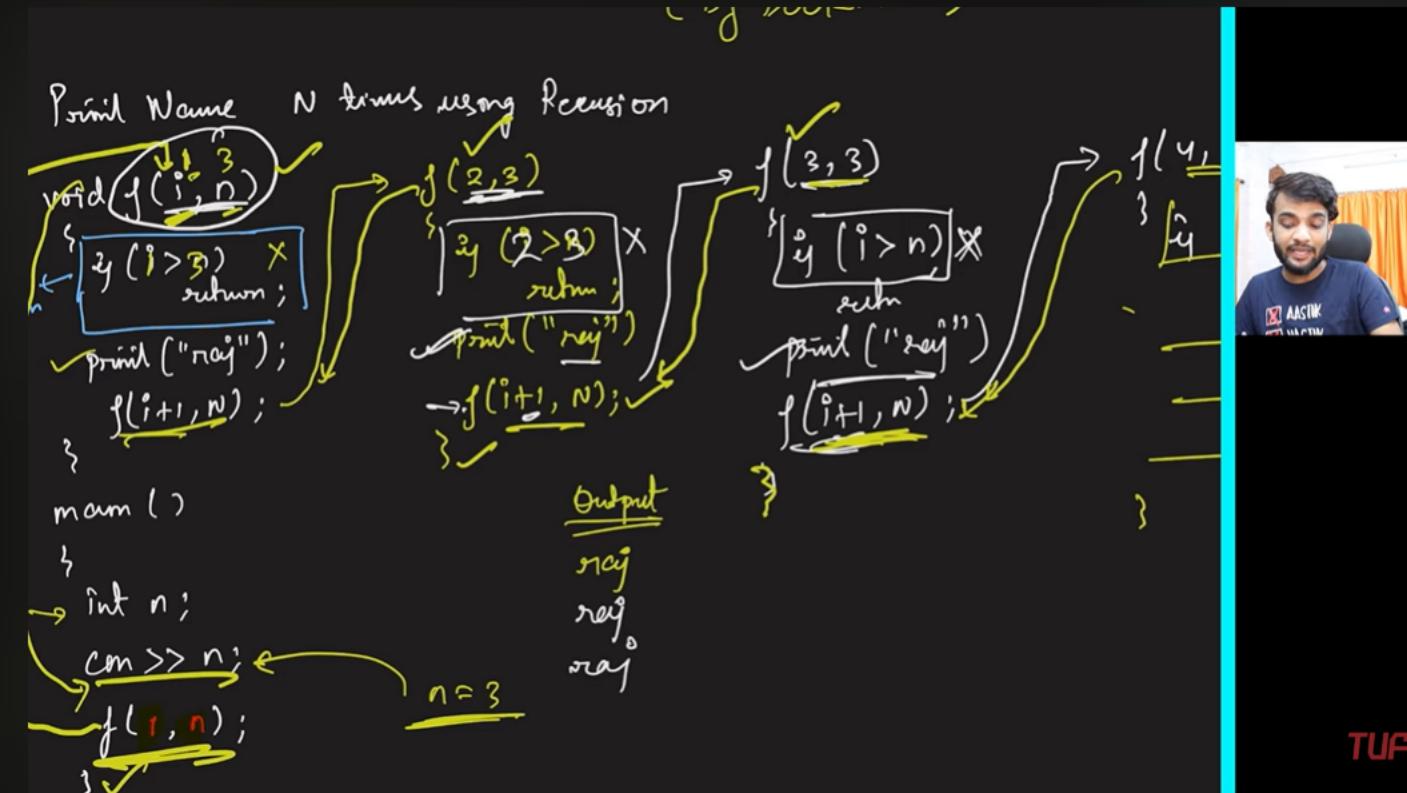


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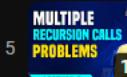
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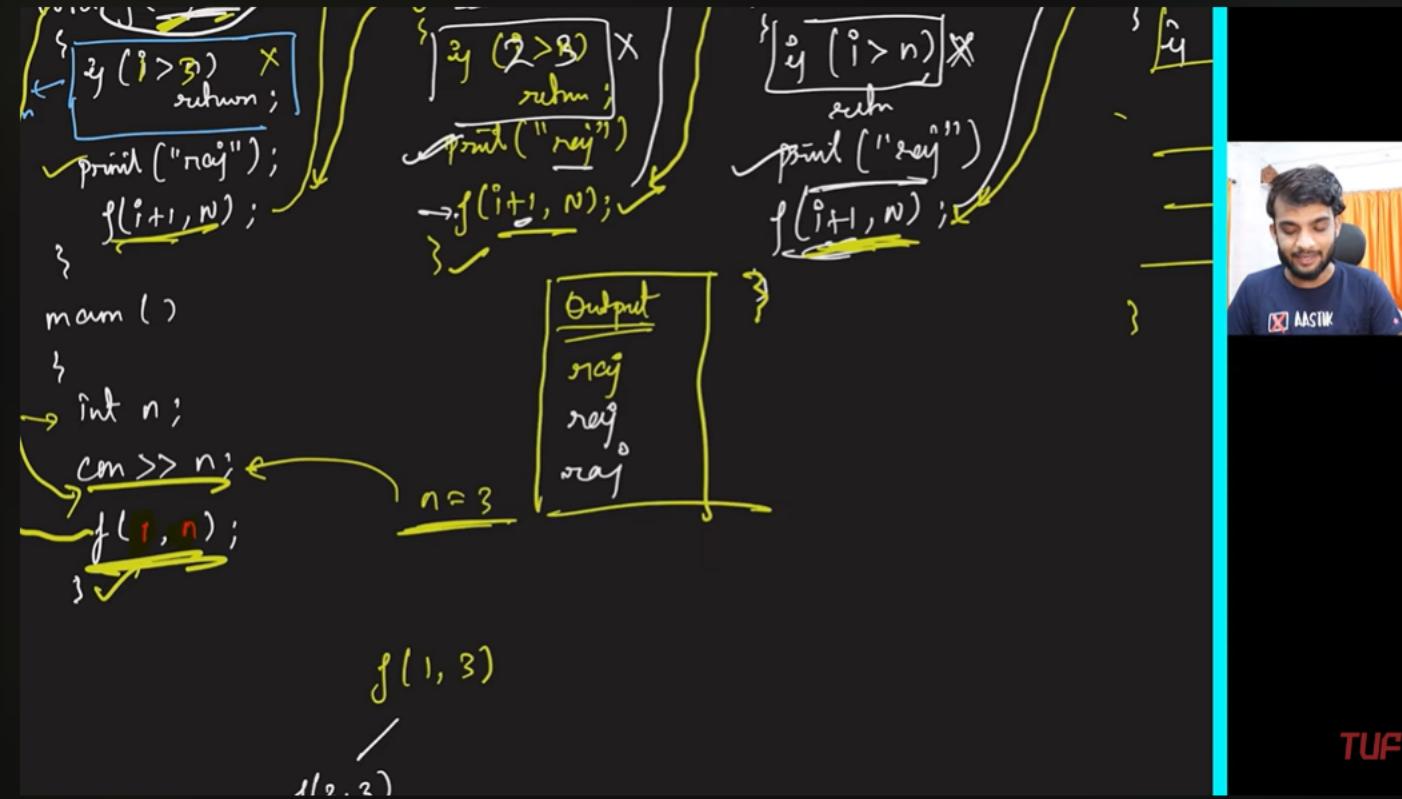
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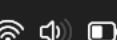
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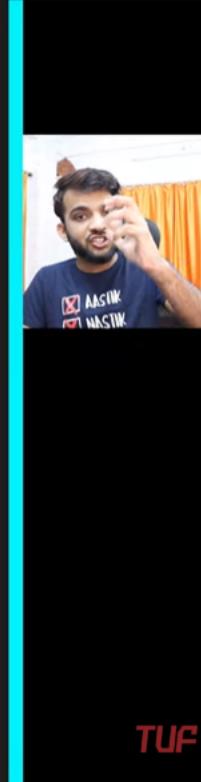
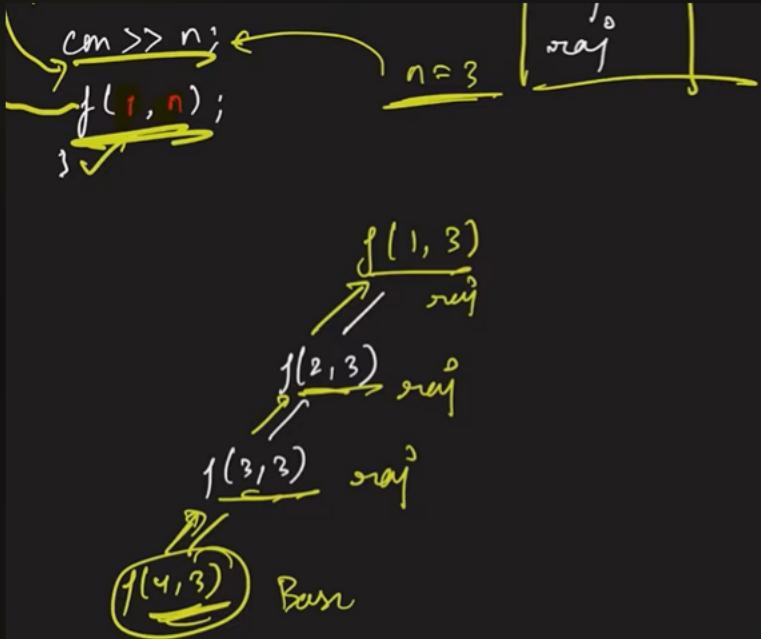
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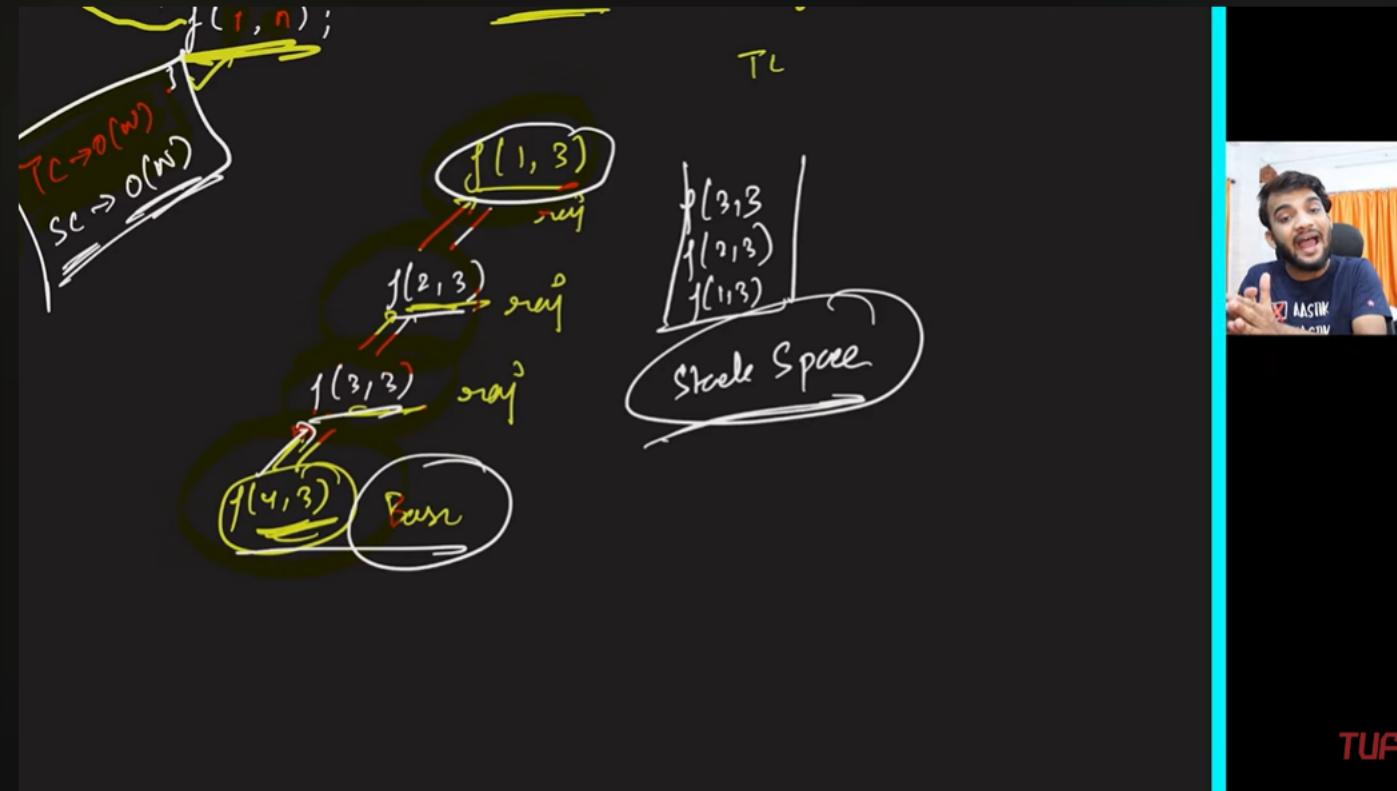
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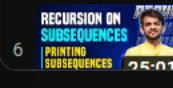
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LECTURE 3 18:14
take U forward



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(0) Print (1-N)

N=4



```
f(i, n)
{
    if (i > n)
        return;
    print(i)
    f(i+1, n)
}
```

11:00 / 22:03



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```
f(i, n)
{
    if (i > n)
        return;
    print(i);
    f(i+1, n)
}
```

```
mam()
{
    input(n)
    f(1, n)
}
```

Output

```
1
2
3
4
```



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- 1 INTRODUCTION TO RECURSION 22:46 Re 1. Introduction to Recursion | Recursion Tree | Stack Spac... take U forward

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- 3 PARAMETERISED AND FUNCTIONAL RECURSION 18:14 Re 3. Parameterised and Functional Recursion | Striver... take U forward

- 4 PROBLEMS ON FUNCTIONAL RECURSION 19:48 Re 4. Problems on Functional Recursion | Strivers A2Z DSA... take U forward

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

- 6 RECURSION ON SUBSEQUENCES PRINTING SUBSEQUENCES 25:01 Re 6. Recursion on Subsequences | Printing... take U forward

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(0) $\boxed{\text{Print } (1 - n)}$

N=4

$\boxed{1 \quad 2 \quad 3 \quad 4}$

$y(1, n)$
{ if ($i > n$)
 return;
 print(i);
 $y(i+1, n)$

}

Output

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LECTURE 2 22:04

PARAMETERISED AND FUNCTIONAL RECUSION  Re 3. Parameterised and Functional Recursion | Striver...
LECTURE 2 18:14

PROBLEMS ON FUNCTIONAL RECUSION  Re 4. Problems on Functional Recursion | Strivers A2Z DSA...
LECTURE 4 19:48

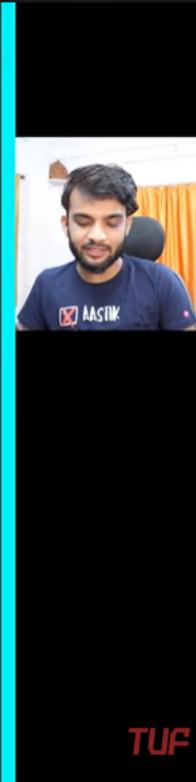
MULTIPLE RECUSION CALLS PROBLEMS  Re 5. Multiple Recusion Calls | Problems | Strivers A2Z DSA...
LECTURE 6 16:45

RECUSION ON SUBSEQUENCES PRINTING SUBSEQUENCES  L6. Recusion on Subsequences | Printing...
LECTURE 6 25:01

(Q) Print in terms of $N \rightarrow 1$ $N=4$



```
f(i, n)
{
    if (i < 1)
        return;
    print(i)
    f(i-1, n);
}
```



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Re 5. Multiple Recursion Calls |
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18:14



Re 4. Problems on Functional
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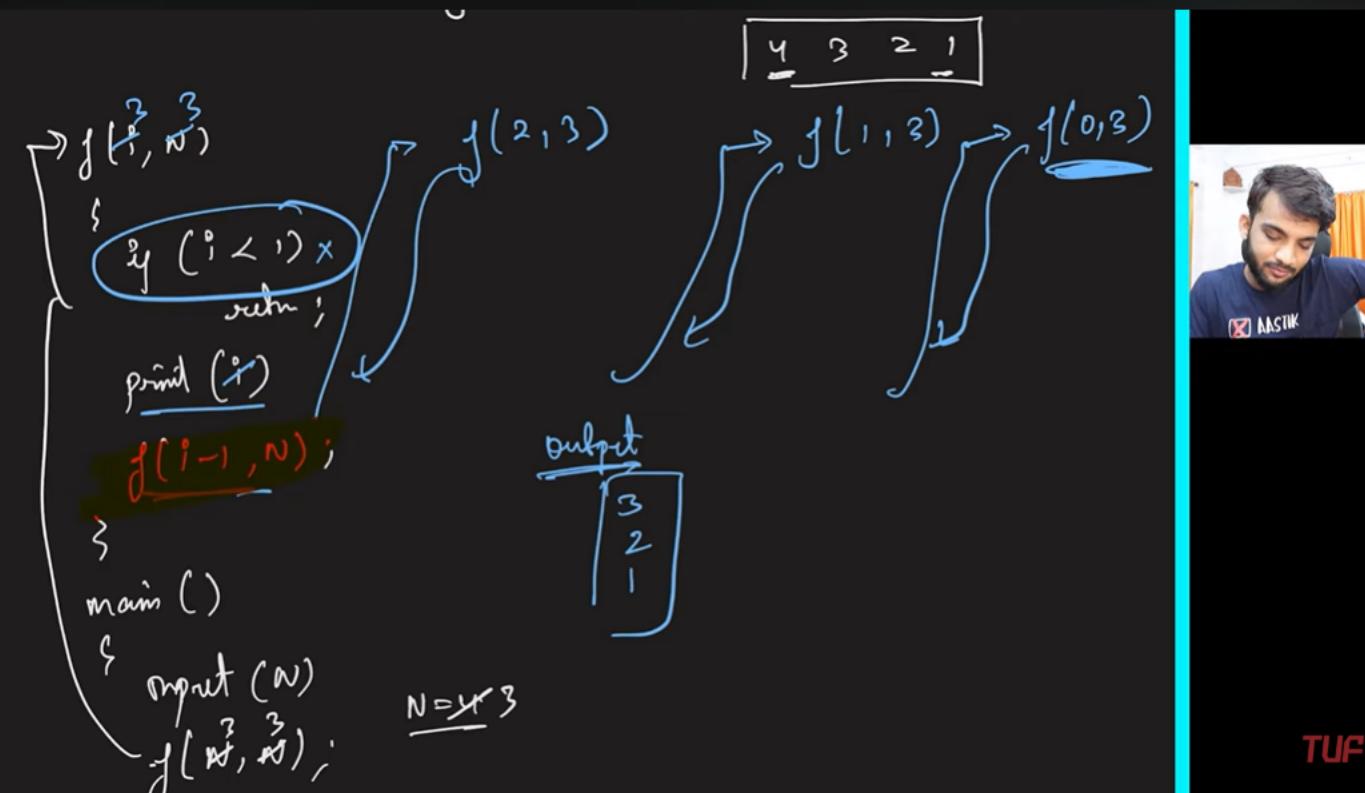
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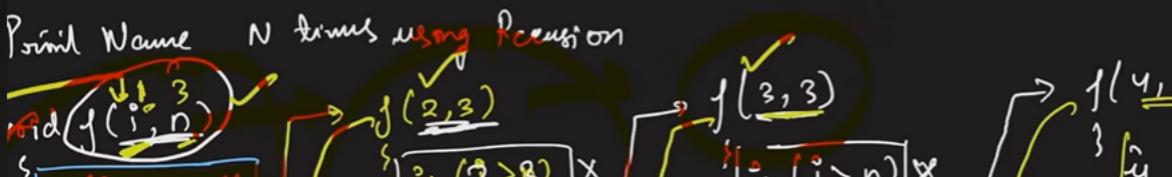
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Basic Recursion Problems

- Print Name N times
- Print linearly from 1 to N
- Print from N to 1.
- Print linearly from 1 to N
(But By Backtracking)
- Print from N to 1
(By Backtracking)



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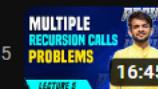
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(8) Print from 1 to N.

$f(i, n)$ *

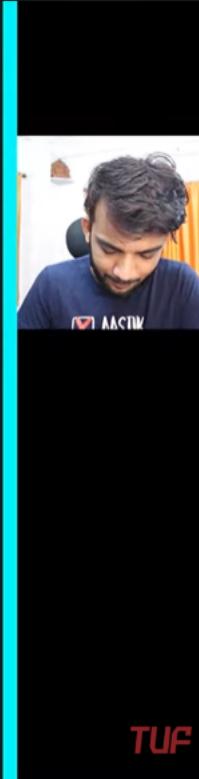
$f(i, n)$

{ if ($i < 1$)
return;

$f(i-1, n);$
 $\text{print}(i);$

}

main



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INTRODUCTION TO RECURSION

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BASIC PROBLEMS ON RECURSION

LECTURE 2
22:04

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PARAMETERISED AND FUNCTIONAL RECURSION

LECTURE 3
18:14

take U forward

PROBLEMS ON FUNCTIONAL RECURSION

LECTURE 4
19:48

take U forward

MULTIPLE RECURSION CALLS PROBLEMS

LECTURE 5
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RECURSION ON SUBSEQUENCES PRINTING SUBSEQUENCES

LECTURE 6
25:01

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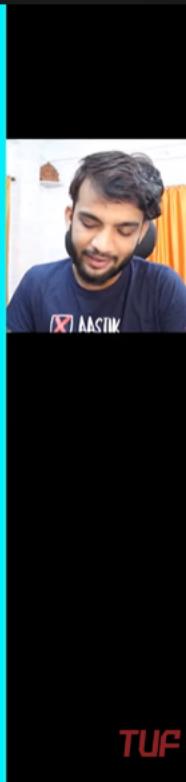
(8) Print from 1 to N.

$f(i+1, N)$ X

$f(2, 3)$ X
 $i < 1$ return;
 $f(1, 3)$ X
 $i < 1$ return;
 $f(0, 3)$ X
 $i < 1$ return;
 $f(1, 2)$ X
 $i < 1$ return;
 $f(0, 2)$ X
 $i < 1$ return;
 $f(1, 1)$ X
 $i < 1$ return;
 $f(0, 1)$ X
 $i < 1$ return;
 $f(1, 0)$ X
 $i < 1$ return;
 $f(0, 0)$ X
 $i < 1$ return;
 $f(1, 3)$
 $i = 1$ print(i);
 $f(1, 2)$
 $i = 2$ print(i);
 $f(1, 1)$
 $i = 3$ print(i);
 $f(1, 0)$
 $i = 4$ print(i);
 $f(0, 3)$
 $i = 5$ print(i);
 $f(0, 2)$
 $i = 6$ print(i);
 $f(0, 1)$
 $i = 7$ print(i);
 $f(0, 0)$
 $i = 8$ print(i);

main()
{
 input(n);
 f(0, n);
}

Output



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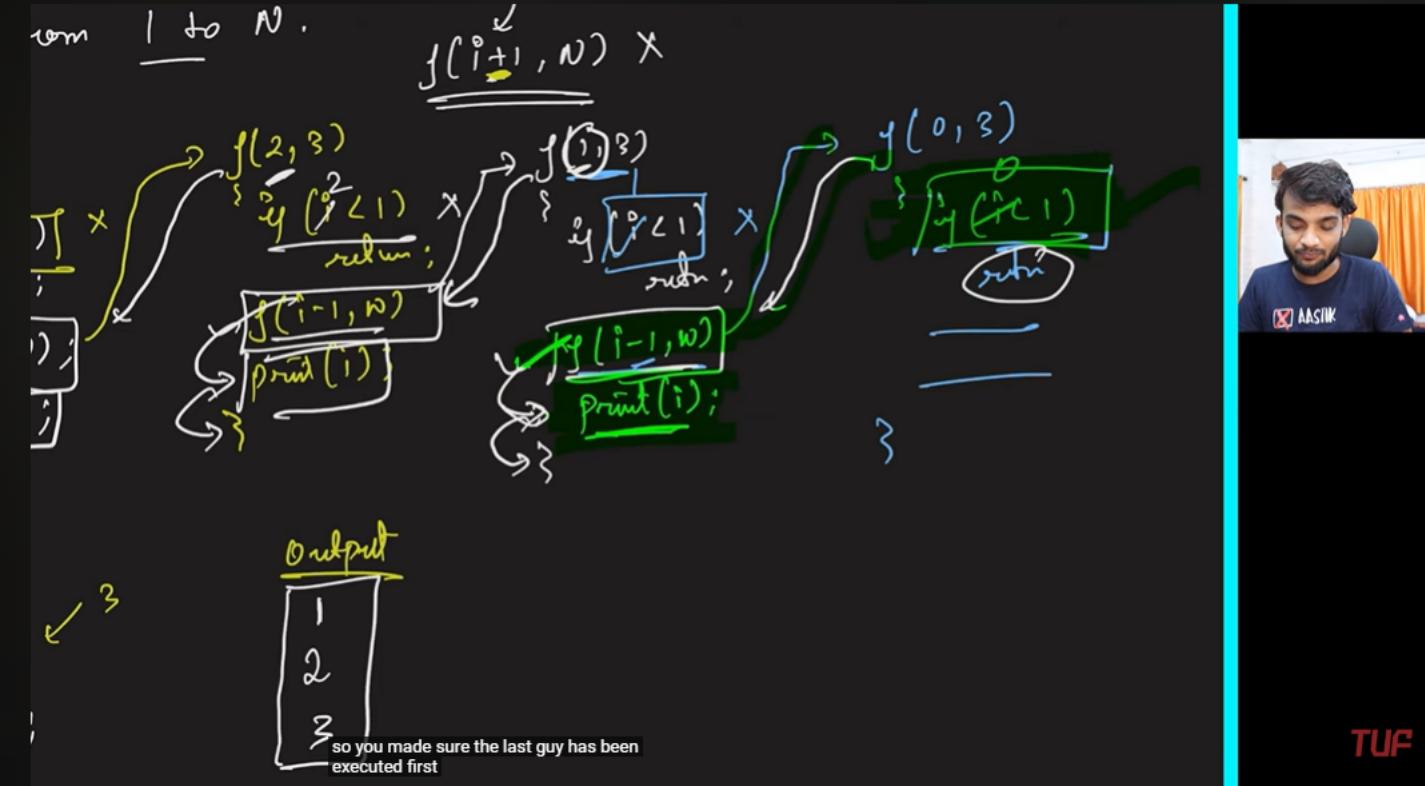


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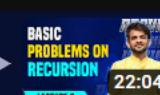
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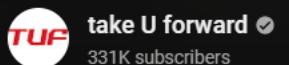


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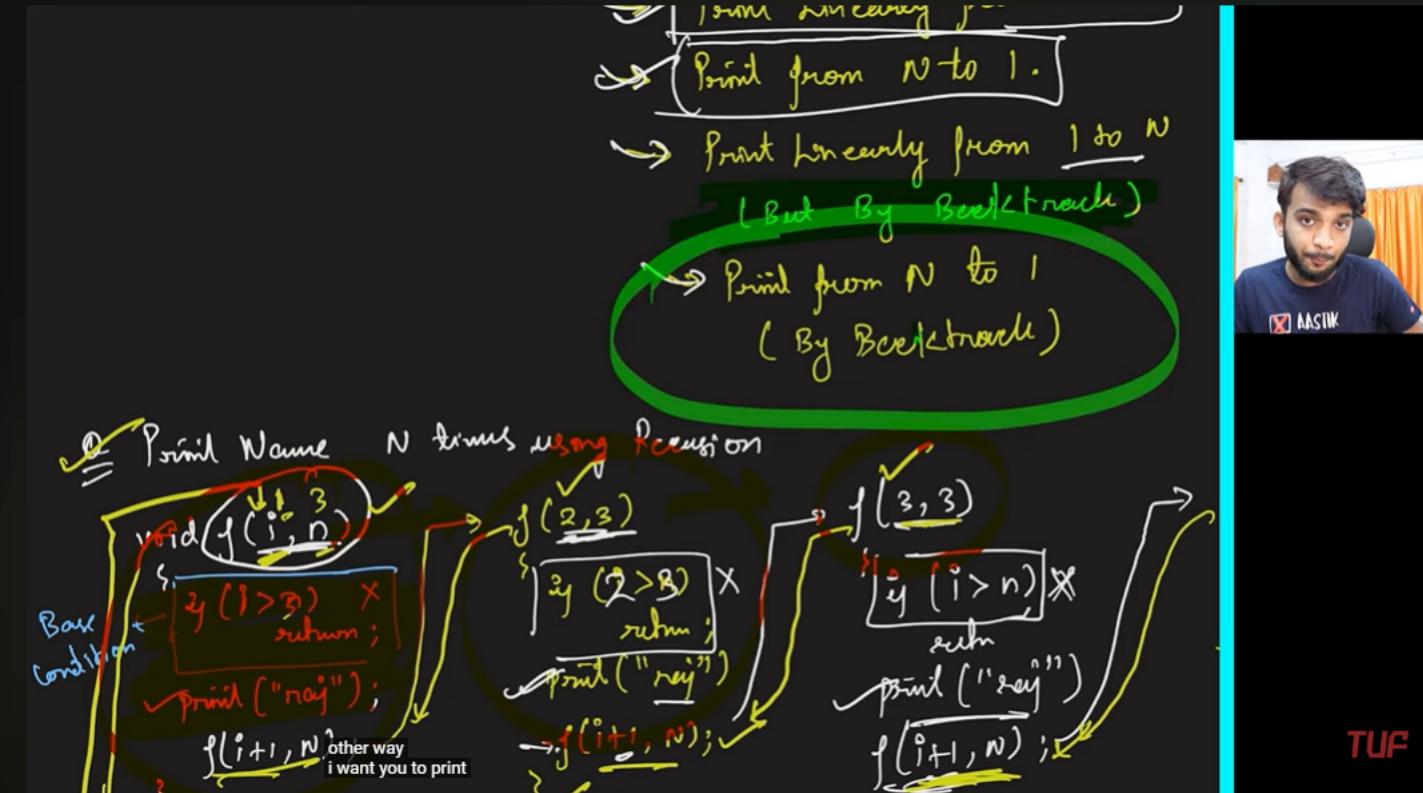
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$w=3$

$\begin{array}{r} 3 \\ \times \\ 2 \\ 1 \end{array}$

$j(i-1, w) \times$

- some unnecessary j^-
- Print from N to 1.
- Print linearly from $1 \text{ to } N$
(But By Backtrack)
- Print from N to 1
(By Backtrack)

① Print Name N times using Recursion

Base condition

```

void j(i, n)
{
    if (i > 3) return;
    cout << "nay";
    j(i+1, n);
}
  
```

$j(1, 3)$

$j(2, 3)$

$j(3, 3)$

$j(4, 3)$

$j(5, 3)$

$j(6, 3)$

$j(7, 3)$

$j(8, 3)$

$j(9, 3)$

$j(10, 3)$

$j(11, 3)$

$j(12, 3)$

$j(13, 3)$

$j(14, 3)$

$j(15, 3)$

$j(16, 3)$

$j(17, 3)$

$j(18, 3)$

$j(19, 3)$

$j(20, 3)$

$j(21, 3)$

$j(22, 3)$

$j(23, 3)$

$j(24, 3)$

$j(25, 3)$

$j(26, 3)$

$j(27, 3)$

$j(28, 3)$

$j(29, 3)$

$j(30, 3)$

$j(31, 3)$

$j(32, 3)$

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$j(92, 3)$

$j(93, 3)$

$j(94, 3)$

$j(95, 3)$

$j(96, 3)$

$j(97, 3)$

$j(98, 3)$

$j(99, 3)$

$j(100, 3)$

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LECTURE 3

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LECTURE 4

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LECTURE 5

16:45

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RECURSION ON SUBSEQUENCES



LECTURE 6

25:01

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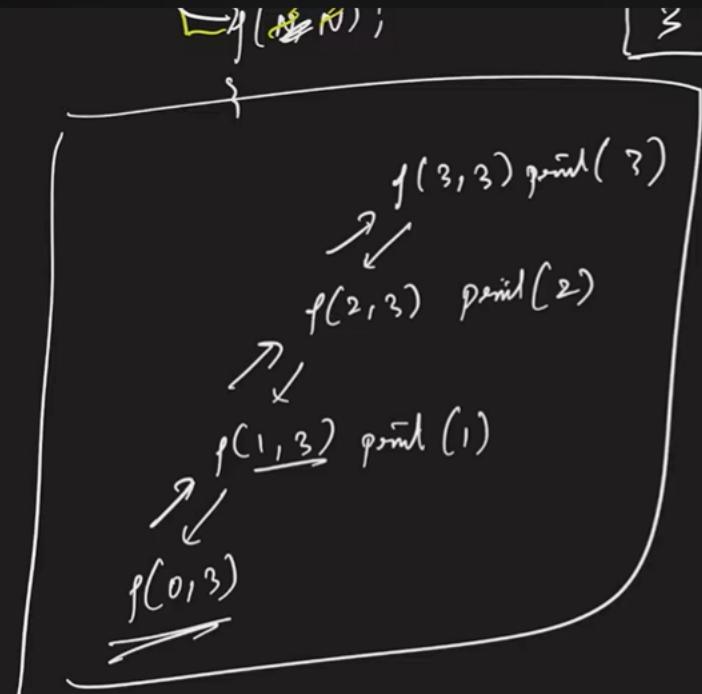
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Recursion Tree



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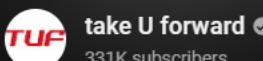
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