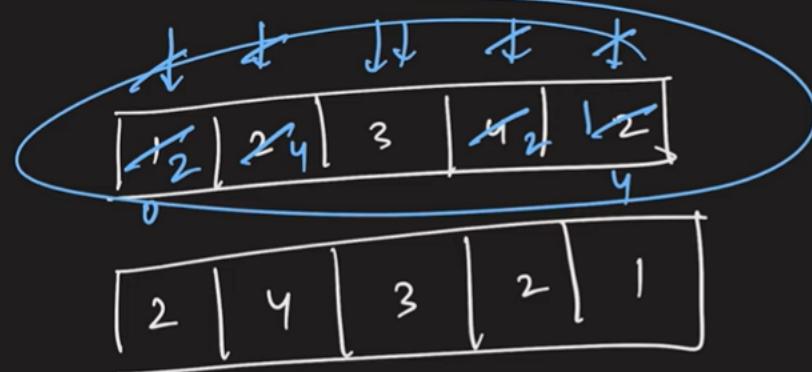


Recursion

→ Reverse an array



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| Recursion Tree | Stack Spac...

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From take U forward

C++

Data Struct



ENG
IN



22:55
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```

f(l, r)
{
    if (l >= r) return;
    swap(a[l], a[r]);
}

```

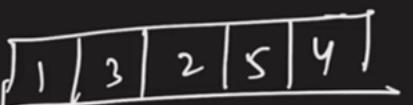
```
f(l+1, r-1);
```

```
}
```

```
main()
```

```
{
```

```
arr ↴
```



```
f(0, n-1);
```

```
}
```

Subtitles/closed captions (c)

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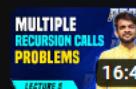
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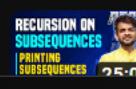
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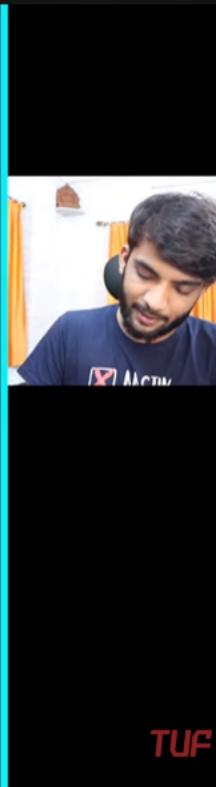
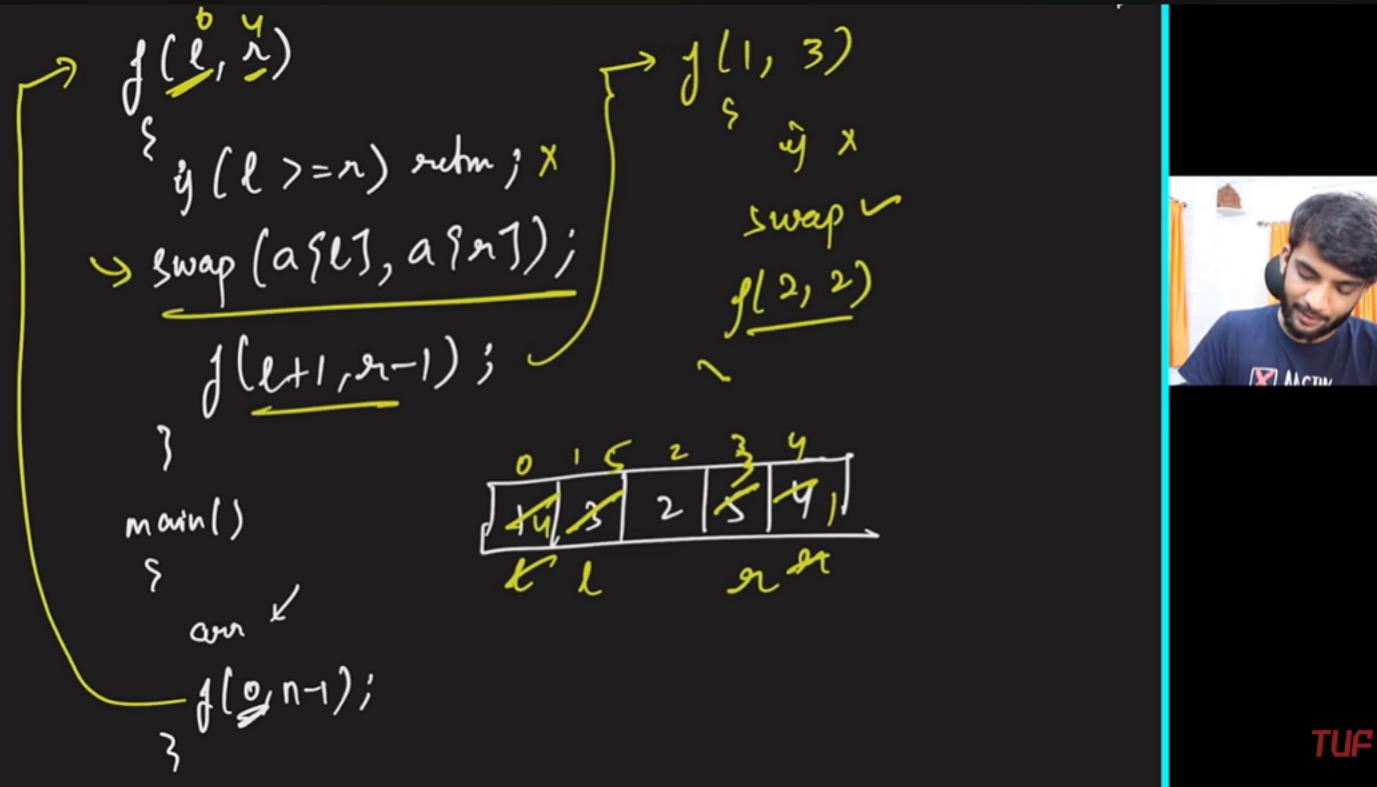
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22:59



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INTRODUCTION
TO
RECURSION
LECTURE 1

22:46

Re 1. Introduction to Recursion
| Recursion Tree | Stack Spac...

take U forward



BASIC
PROBLEMS ON
RECURSION
LECTURE 2

22:04

Re 2. Problems on Recursion |
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PARAMETERISED
AND FUNCTIONAL
RECURSION
LECTURE 3

18:14

Re 3. Parameterised and
Functional Recursion | Striver...

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PROBLEMS ON
FUNCTIONAL
RECURSION
LECTURE 4

19:48

Re 4. Problems on Functional
Recursion | Strivers A2Z DSA...

take U forward



MULTIPLE
RECURSION CALLS
PROBLEMS
LECTURE 5

16:45

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

take U forward



RECURSION ON
SUBSEQUENCES
PRINTING
SUBSEQUENCES
LECTURE 6

25:01

L6. Recursion on
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C++

Data Struct



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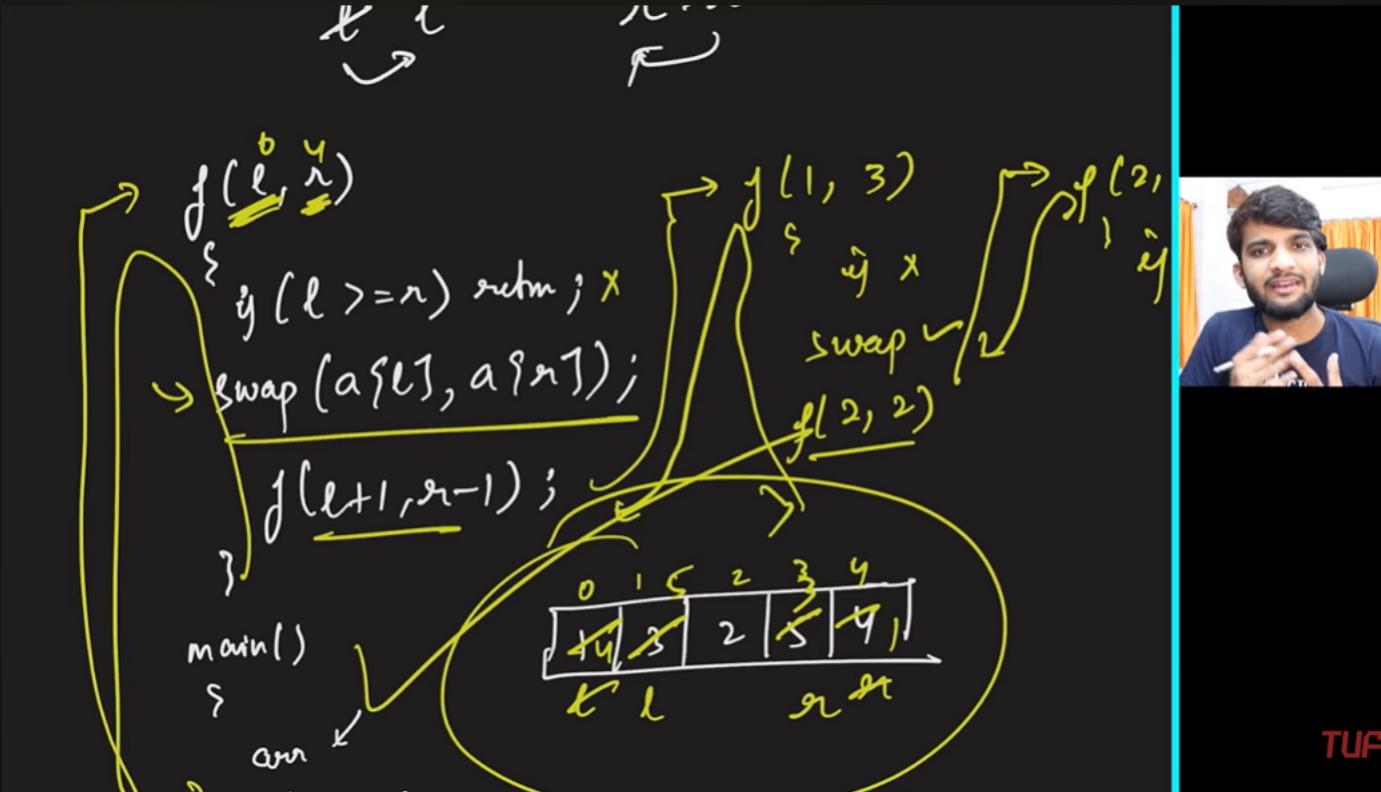
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PROBLEMS ON FUNCTIONAL RECURSION LECTURE 4 19:48
4 Re 4. Problems on Functional Recursion | Strivers A2Z DSA...
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MULTIPLE RECURSION CALLS PROBLEMS LECTURE 5 16:45
5 Re 5. Multiple Recursion Calls | Problems | Strivers A2Z DSA...
take U forward

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

All

From take U forward

C++

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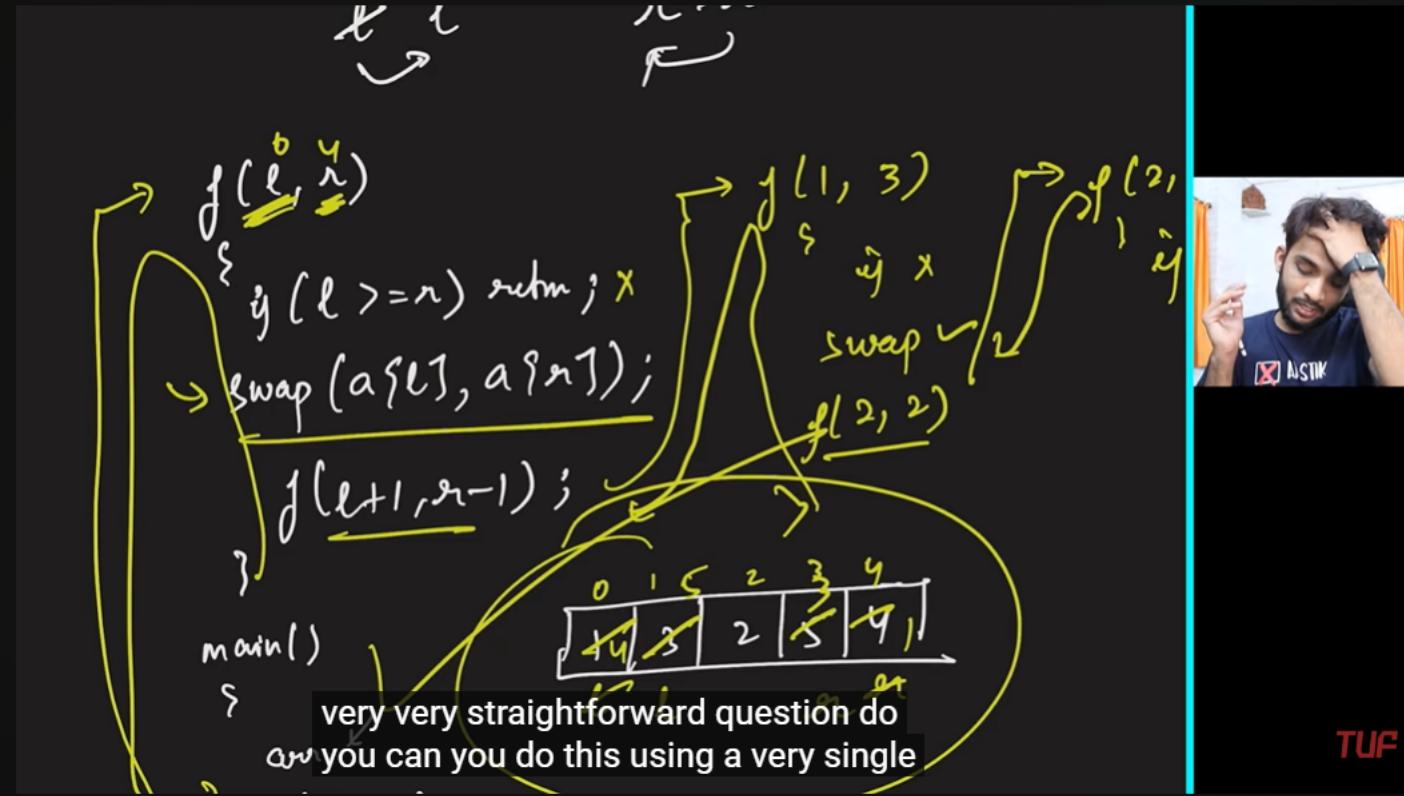


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23:03

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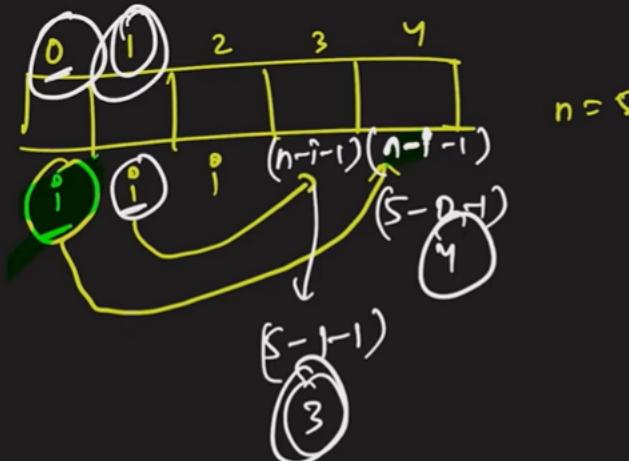


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$n=5$

you can easily swap one and three you
can easily have four and uh zero so

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- 3  Re 3. Parameterised and Functional Recursion | Striver...
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- 4  Re 4. Problems on Functional Recursion | Strivers A2Z DSA...
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- 5  Re 5. Multiple Recursion Calls | Problems | Strivers A2Z DSA...
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- 6  L6. Recursion on Subsequences | Printing...
LECTURE 6 25:01

All From take U forward C++ Data Struct >

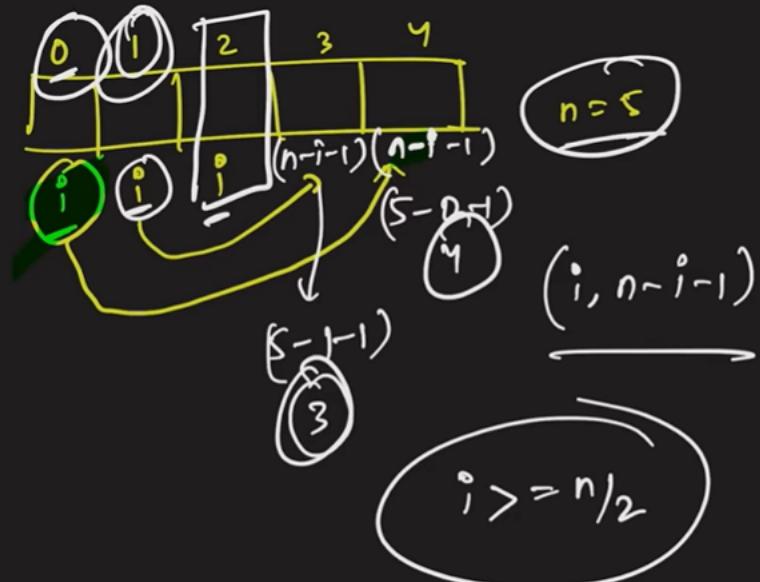


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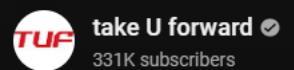
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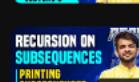
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C++

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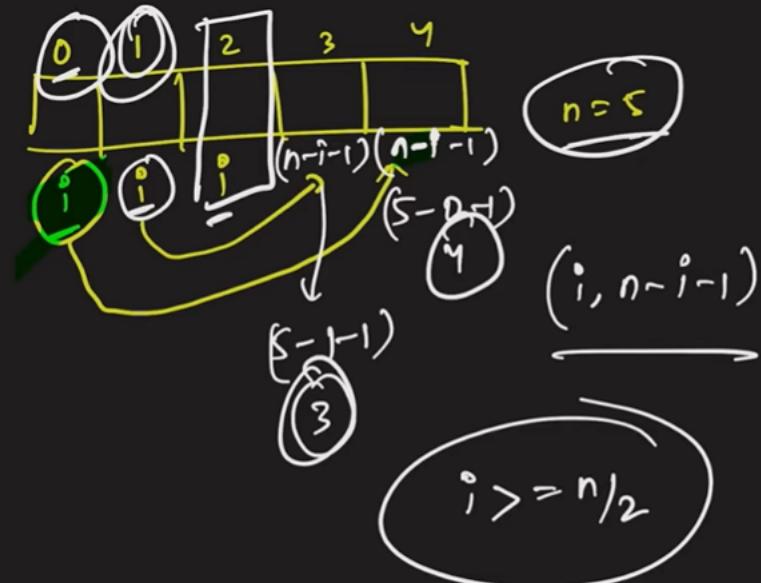


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IN

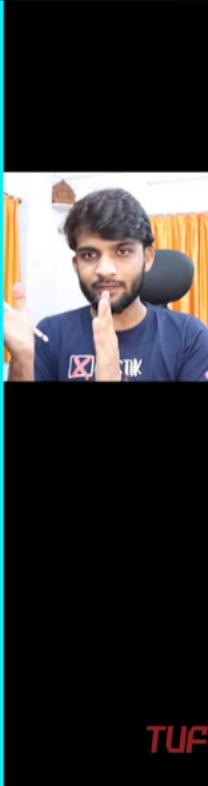


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whenever you're crossing the middle
there's no need to swap before that you



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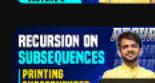
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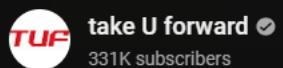


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IN



23:06

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$f(i)$

{
 if ($i >= n/2$)
 return ;

swap($a[i], a[n-i-1]$);

 f($i+1$);
}

main()
{
 //



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IN

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```

    i < n/2
    subn;
    swap(a[i], a[n-i-1]);
    j++;
}
main()
{
    arr ↴
    j(0)
}

```



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- 2 BASIC PROBLEMS ON RECURSION | Strivers A2Z DSA Course
LECTURE 2 22:04

- 3 PARAMETERISED AND FUNCTIONAL RECURSION | Striver...
LECTURE 3 18:14

- 4 PROBLEMS ON FUNCTIONAL RECURSION | Strivers A2Z DSA...
LECTURE 4 19:48

- 5 MULTIPLE RECURSION CALLS | PROBLEMS | Strivers A2Z DSA...
LECTURE 5 16:45

- 6 RECURSION ON SUBSEQUENCES | PRINTING SUBSEQUENCES | Printin...
LECTURE 6 25:01

- L6. Recursion on Subsequences | Printing...

All

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C++

Data Struct



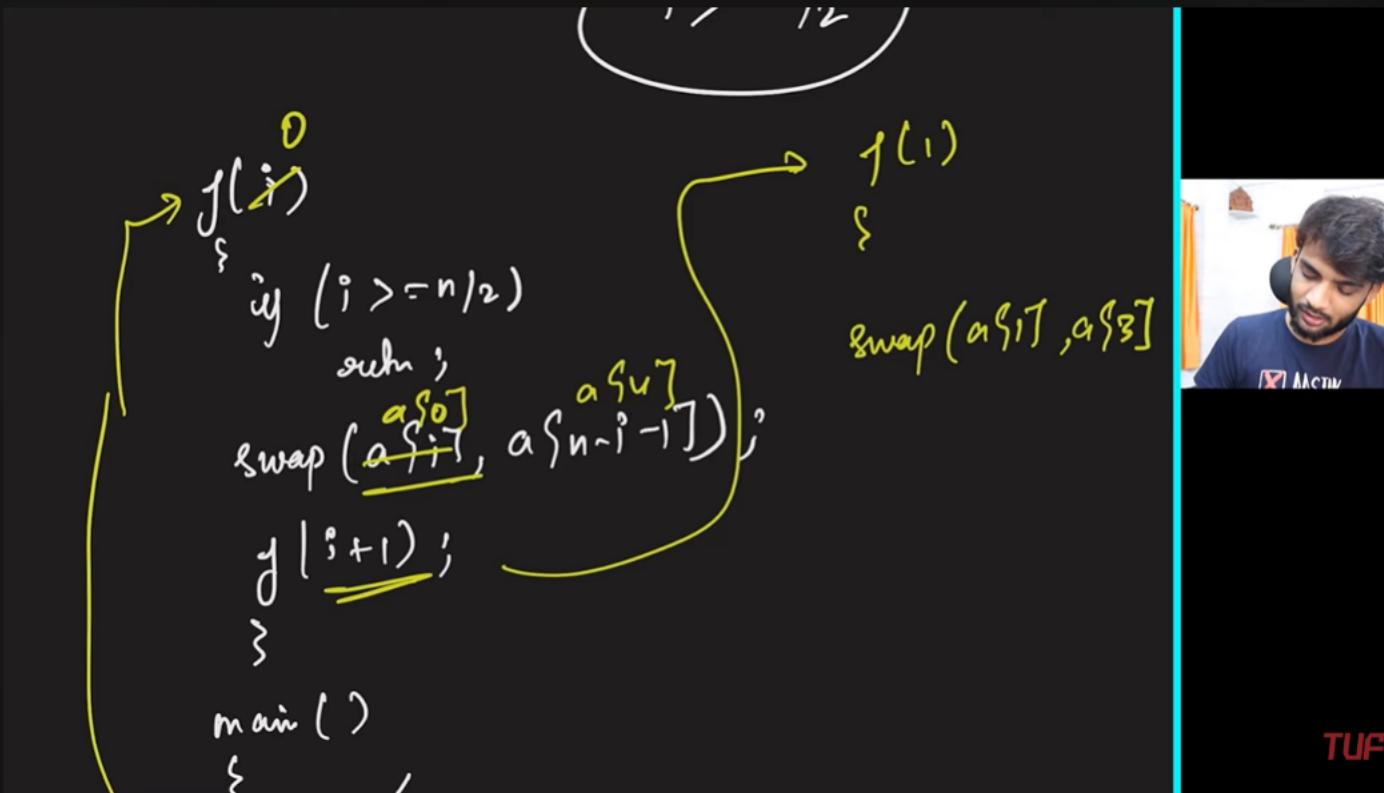
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Data Struct

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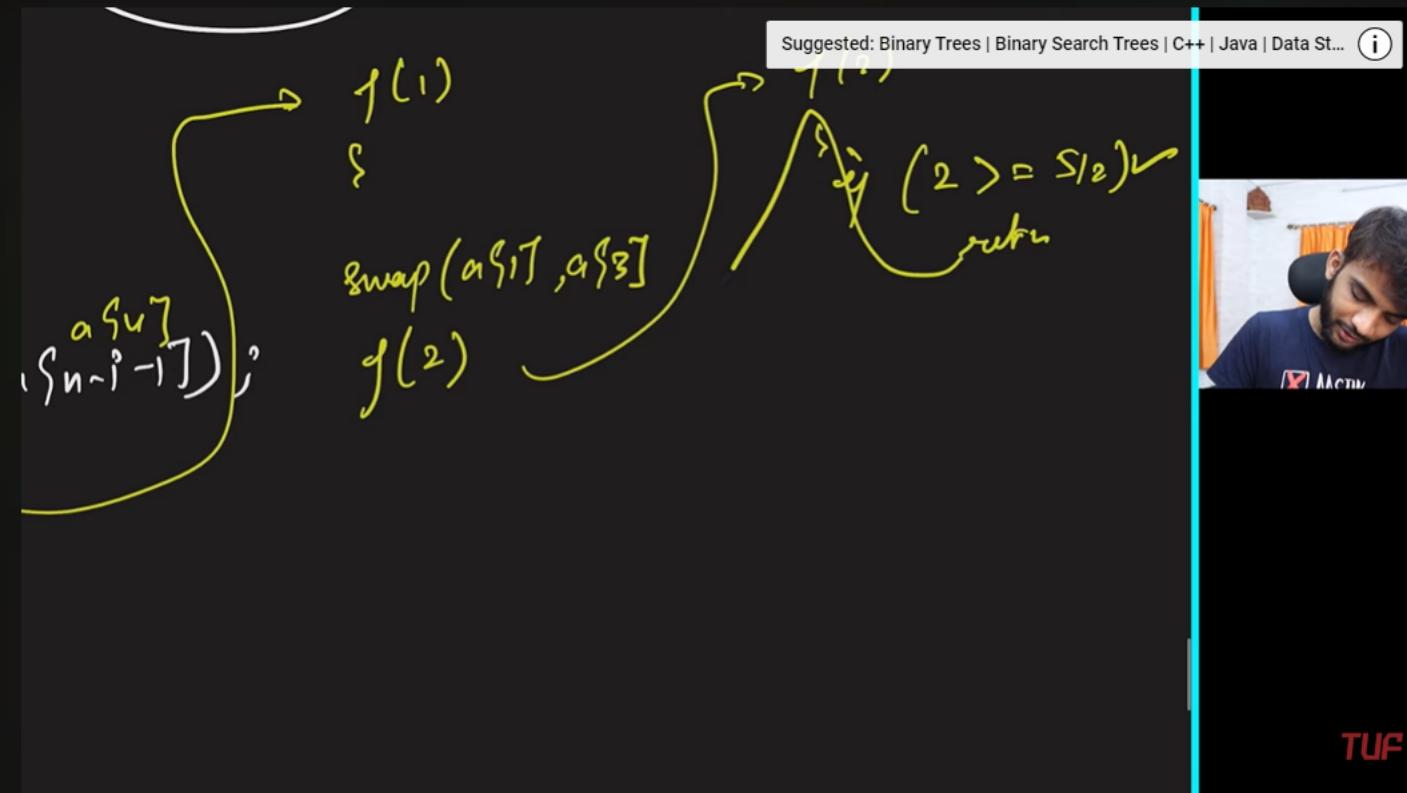
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22:46

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LECTURE 2

22:04

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LECTURE 3

18:14

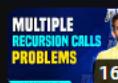
take U forward



LECTURE 4

19:48

take U forward



LECTURE 5

16:45

take U forward



LECTURE 6

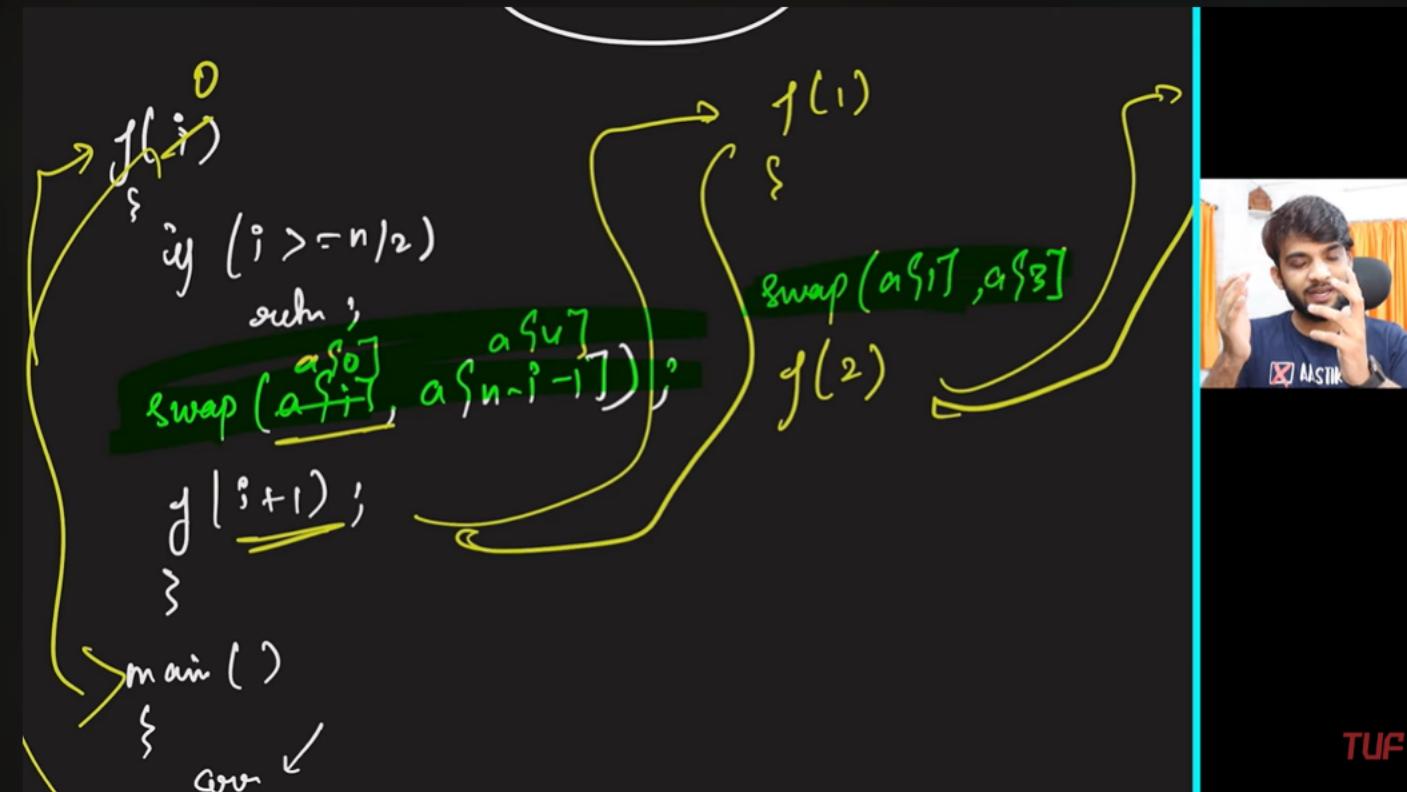
25:01

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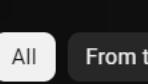
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C++

Data Struc

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ENG



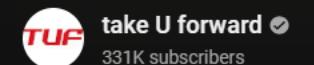
23:10

08-04-2023

A screenshot of a video player interface. On the left, there is a code editor window titled "code.cpp" containing C++ code for a quicksort-like algorithm. Below the code editor is a message: "Finished in 1.5s". On the right, there is a video feed of a man with a beard speaking. The video player has a dark theme with a cyan vertical bar on the right side.

```
code.cpp
#include<bits/stdc++.h>
using namespace std;
void f(int i, int arr[], int n) {
    if(i >= n/2) return;
    swap(arr[i], arr[n-i-1]);
    f(i+1, arr, n);
}
int main() {
#ifndef ONLINE_JUDGE
    freopen("input.txt", "r", stdin);
    freopen("output.txt", "w", stdout);
#endif
    int n;
    cin >> n;
    int arr[n];
    for(int i = 0;i<n;i++) cin >> arr[i];
    f(0, arr, n);
    for(int i = 0;i<n;i++) cout << arr[i] << " ";
    return 0;
}
```

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LECTURE 1 22:46

- BASIC PROBLEMS ON RECURSION
LECTURE 2 22:04

- PARAMETERISED AND FUNCTIONAL RECURSION
LECTURE 3 18:14

- PROBLEMS ON FUNCTIONAL RECURSION
LECTURE 4 19:48

- MULTIPLE RECURSION CALLS PROBLEMS
LECTURE 5 16:45

- RECURSION ON SUBSEQUENCES PRINTING SUBSEQUENCES
LECTURE 6 25:01

- L6. Recursion on Subsequences | Printing...

All

From take U forward

C++

Data Struct

23:12

08-04-2023



ENG IN



o Check if a string is palindrome.

→ a string on reversal

reads the same

"M A D A M" → reverse "M A D A M"

"11211" → "11211"

we can think that okay it's pretty much similar to reverse

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LECTURE 1

INTRODUCTION TO RECUSION

22:46

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| Recursion Tree | Stack Spac...
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LECTURE 2

BASIC PROBLEMS ON RECUSION

22:04

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LECTURE 3

PARAMETERISED AND FUNCTIONAL RECUSION

18:14

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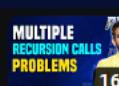


LECTURE 4

PROBLEMS ON FUNCTIONAL RECUSION

19:48

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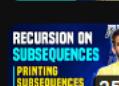


LECTURE 5

MULTIPLE RECUSION CALLS PROBLEMS

16:45

Re 5. Multiple Recursion Calls |
Problems | Strivers A2Z DSA...
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LECTURE 6

RECUSION ON SUBSEQUENCES

25:01

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M A D A M

the left half and the right half has to
be same makes sense



Suggested: Placement Series ⓘ

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22:46
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23:21

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M A D A M

O

f(i)

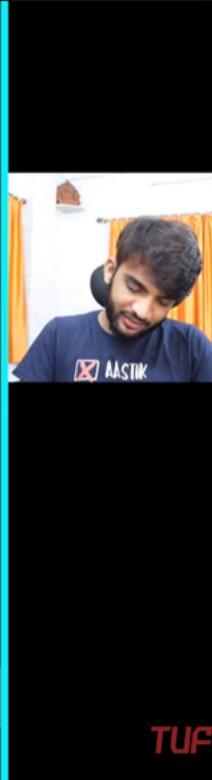
if ($i \geq n/2$) return true;

if ($f(g_i) = f(g_{n-i-1})$)
return false;

return f(i+1);

}

main()



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1

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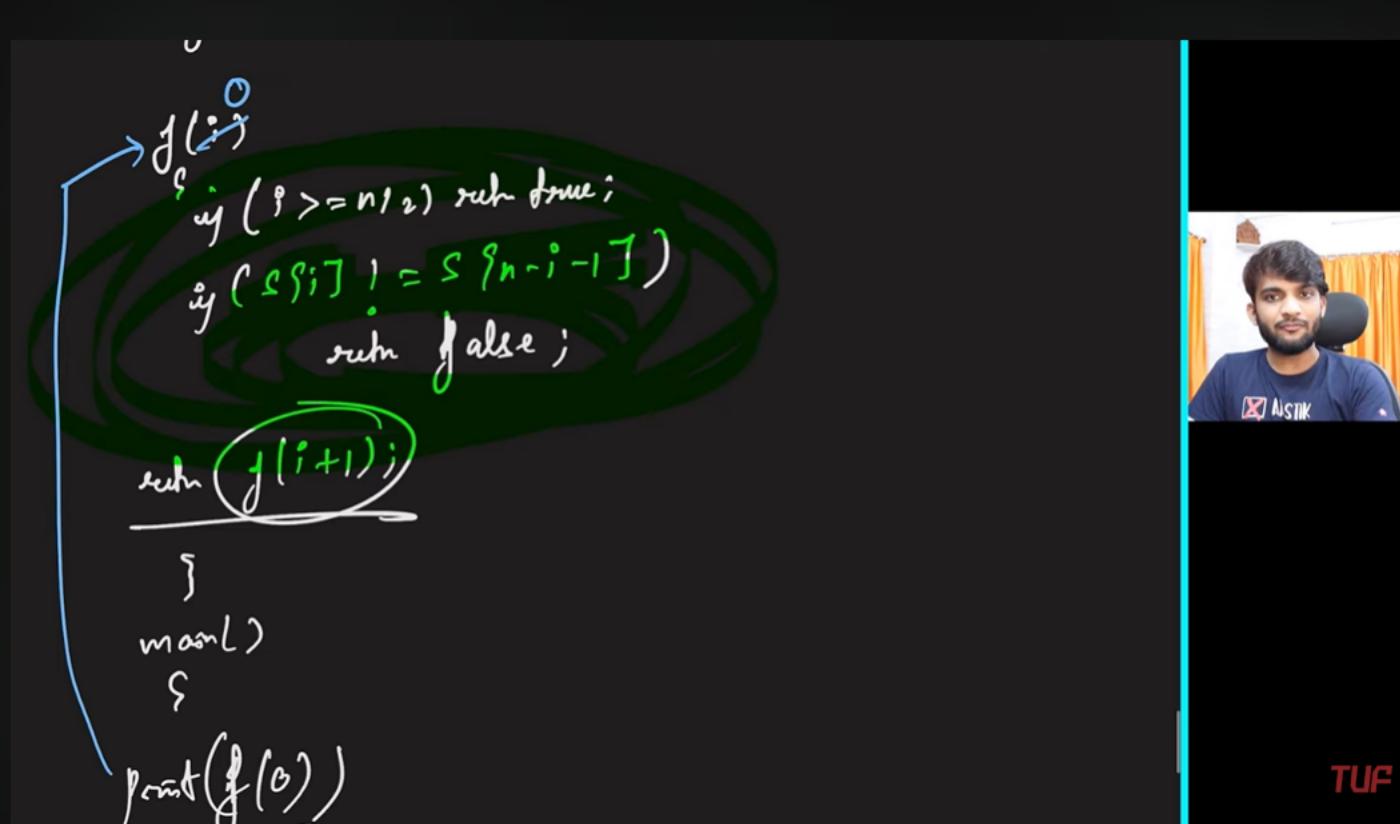


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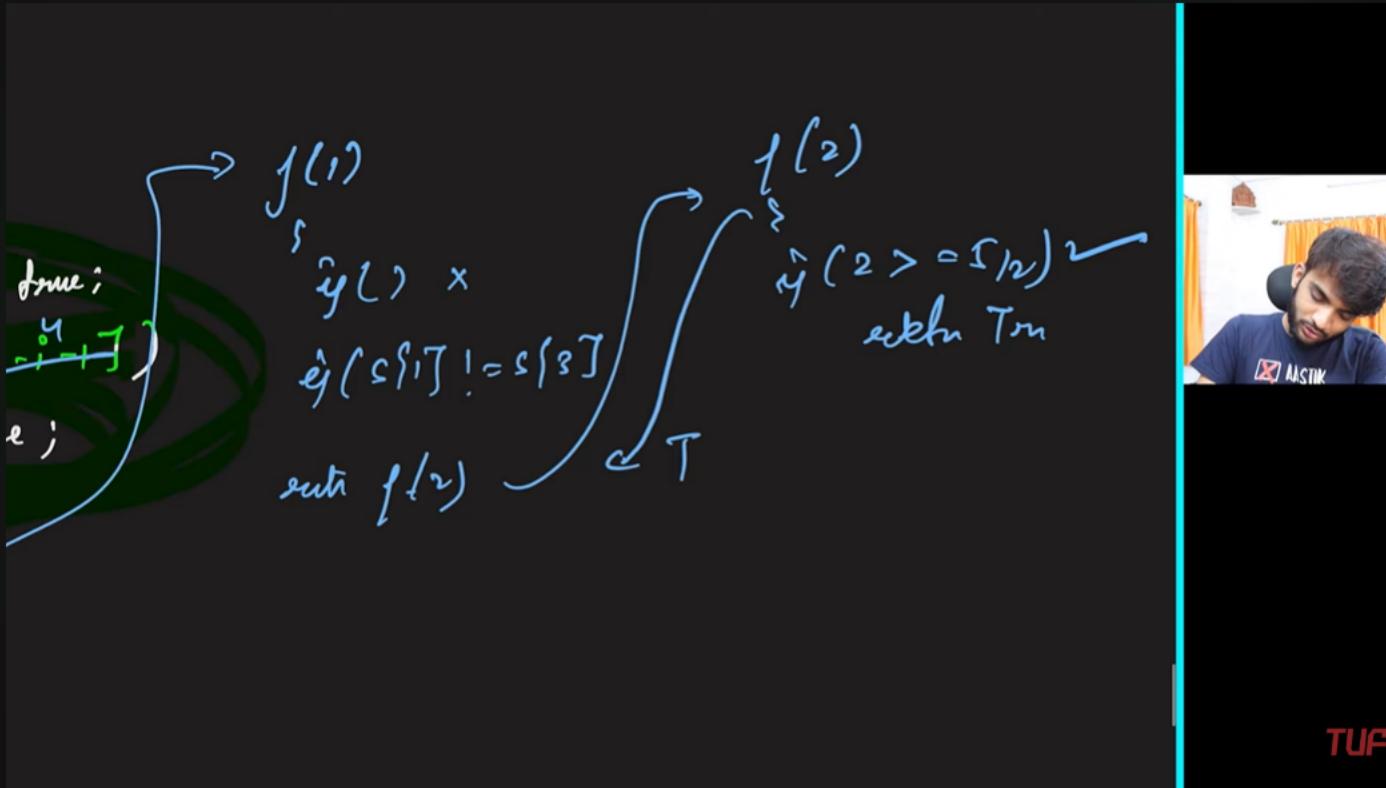
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LECTURE 3

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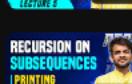
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LECTURE 5

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LECTURE 6

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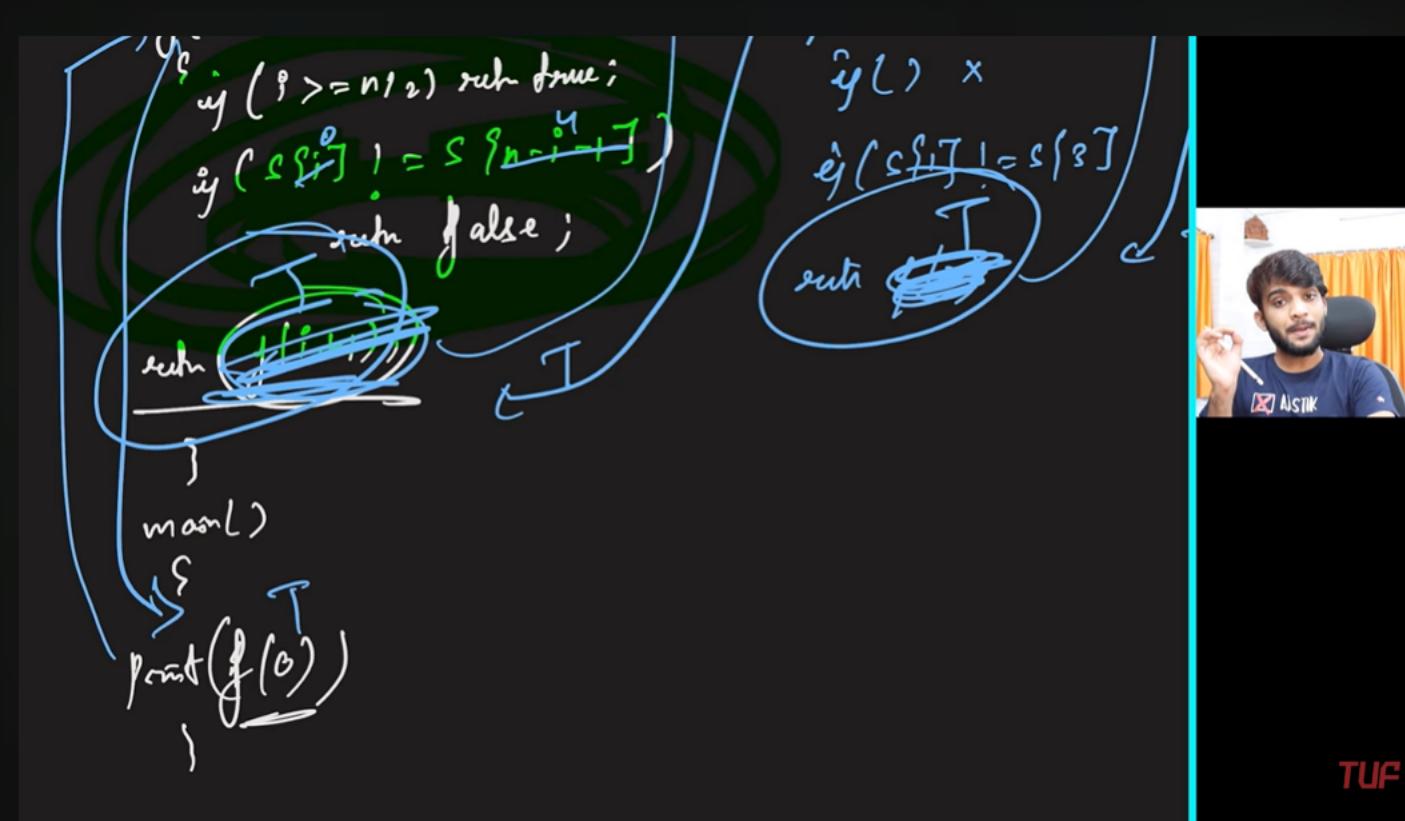


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BASIC PROBLEMS ON RECURSION

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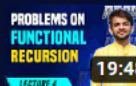
PARAMETERISED AND FUNCTIONAL RECURSION

LECTURE 3

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PROBLEMS ON FUNCTIONAL RECURSION

LECTURE 4

19:48

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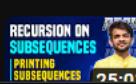
MULTIPLE RECURSION CALLS PROBLEMS

LECTURE 5

16:45

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RECURSION ON SUBSEQUENCES PRINTING SUBSEQUENCES

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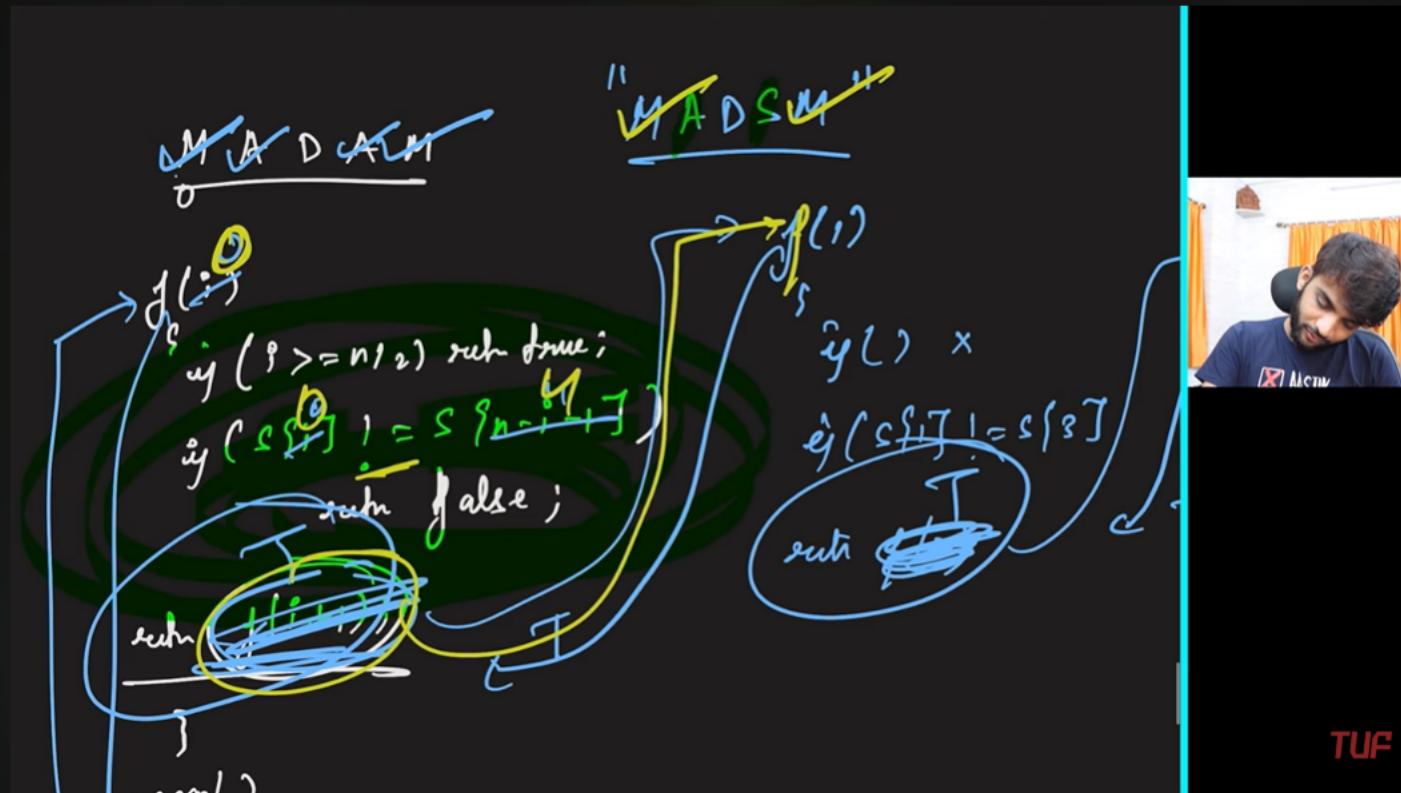
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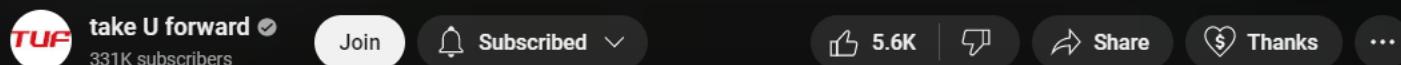
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RECURSION ON SUBSEQUENCES

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25:01

Re 6. Recursion on
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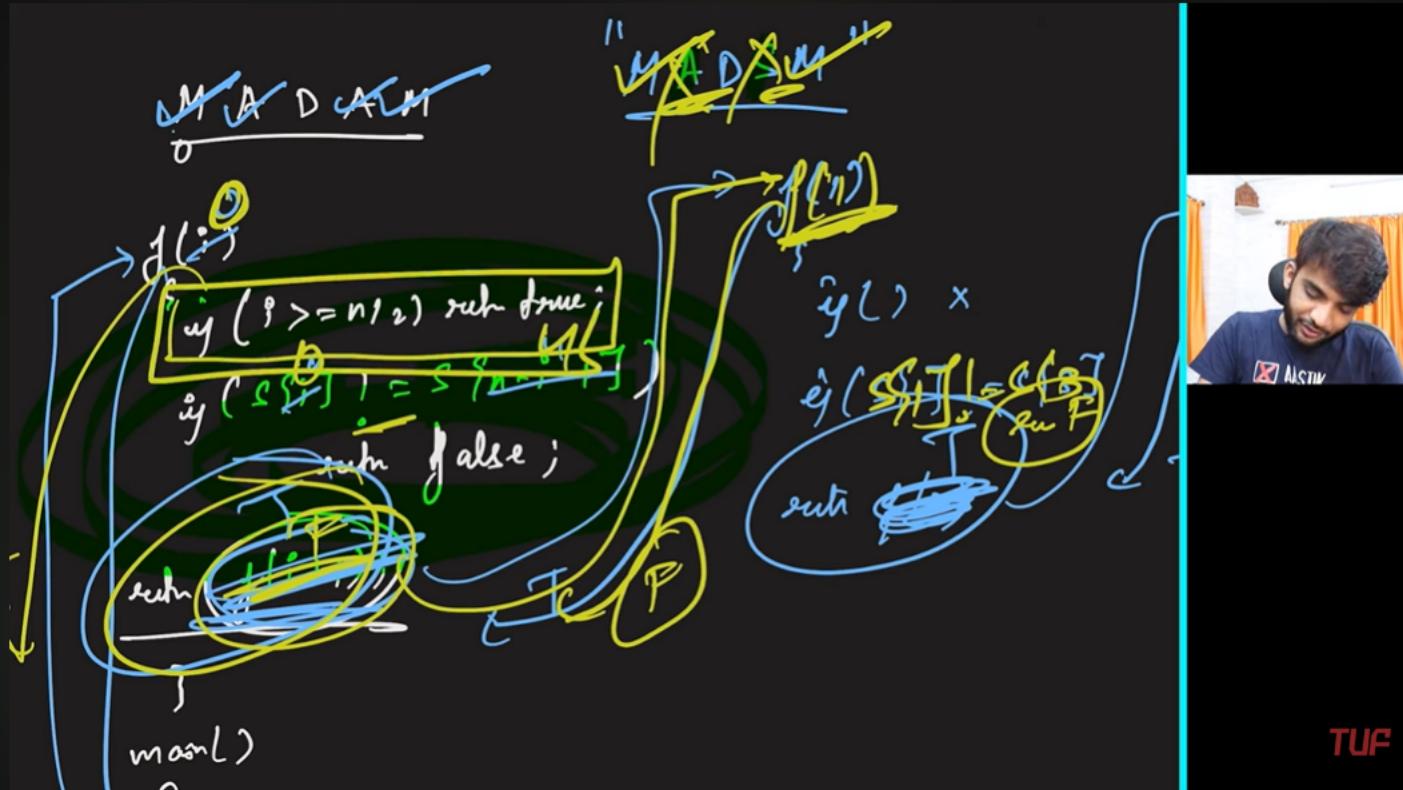
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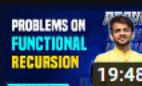
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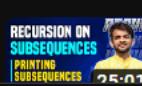
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Re 5. Multiple Recursion Calls |
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A screenshot of a video conferencing application. On the left, a code editor window shows C++ code for a palindrome check function. The code uses recursion to compare characters from both ends of a string. Below the code editor is a status bar with the text "Finished in 1.2s". On the right, there is a video feed of a young man with a beard, wearing a blue t-shirt, looking down at his screen. The background shows some orange curtains.

```
code.cpp stdc++.h
1 #include<bits/stdc++.h>
2 using namespace std;
3 bool f(int i, string &s) {
4     if(i >= s.size() / 2) return true;
5     if(s[i] != s[s.size() - i - 1]) return false;
6     return f(i+1, s);
7 }
8 int main() {
9     #ifndef ONLINE_JUDGE
10     freopen("input.txt", "r", stdin);
11     freopen("output.txt", "w", stdout);
12     #endif
13     string s = "madam";
14     cout << f(0, s);
15     return 0;
16 }
```

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- L6. Recursion on Subsequences | Printing...

All

From take U forward

C++

Data Struct



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```
code.cpp x stdc++.h
1 #include<bits/stdc++.h>
2 using namespace std;
3 bool f(int i, string &s) {
4     if(i >= s.size() / 2) return true;
5     if(s[i] != s[s.size() - i - 1]) return false;
6     return f(i+1, s);
7 }
8 int main() {
9     #ifndef ONLINE_JUDGE
10     freopen("input.txt", "r", stdin);
11     freopen("output.txt", "w", stdout);
12 #endif
13     string s = "madsm";
14     cout << f(0, s);
15     return 0;
16 }
```

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