# C++ Basics in One Shot - Strivers A2Z DSA Course - L1

code > LearnC++.cpp > main()

```cpp
#include<iostream>

int main() {
    std::cout << "Hey Striver!" << std::endl << "Hey Raj!" << std::endl;
    std::cout << "Hey Striver!";
    return 0;
}
```

input.txt

```
1
```

output.txt

```
3   Hey Striver!
```

double Corner this is very annoying
right

9:07 / 1:26:26

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Compile and run - Task

# C++ Basics in One Shot - Strivers A2Z DSA Course - L1

LearnC++.cpp

code > LearnC++.cpp > ...

```cpp
#include<bits/stdc++.h>
using namespace std;

int main() {
    int x, y;
    cin >> x >> y;
    cout << "Value of x: " << x << " and y: " << y;
    return 0;
}
```

input.txt

```
10
12
```

output.txt

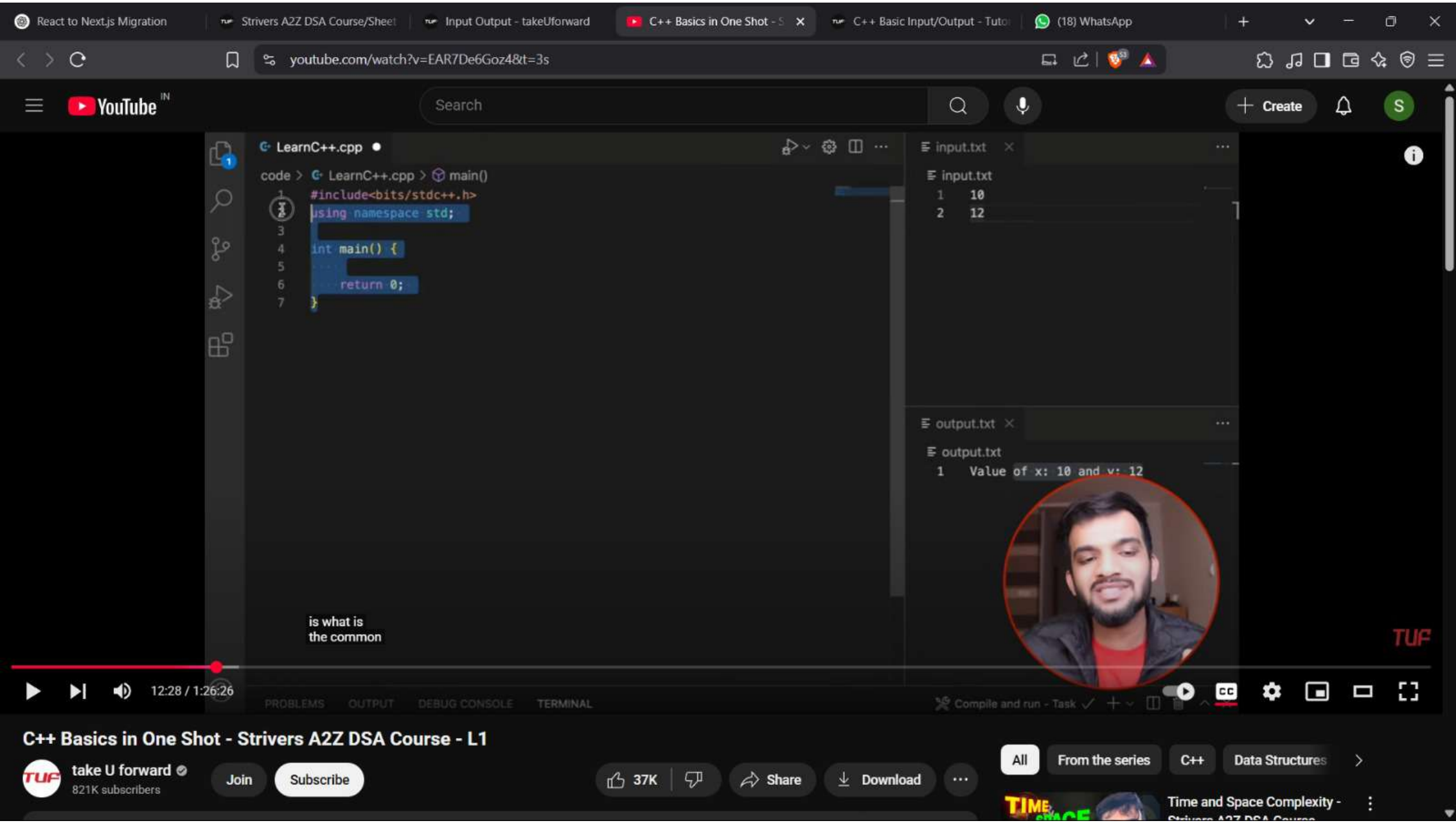
```
Value of x: 10 and y: 12
```

all the list of libraries that are
inside this particular

12:23 / 1:26:26

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Compile and run - Task



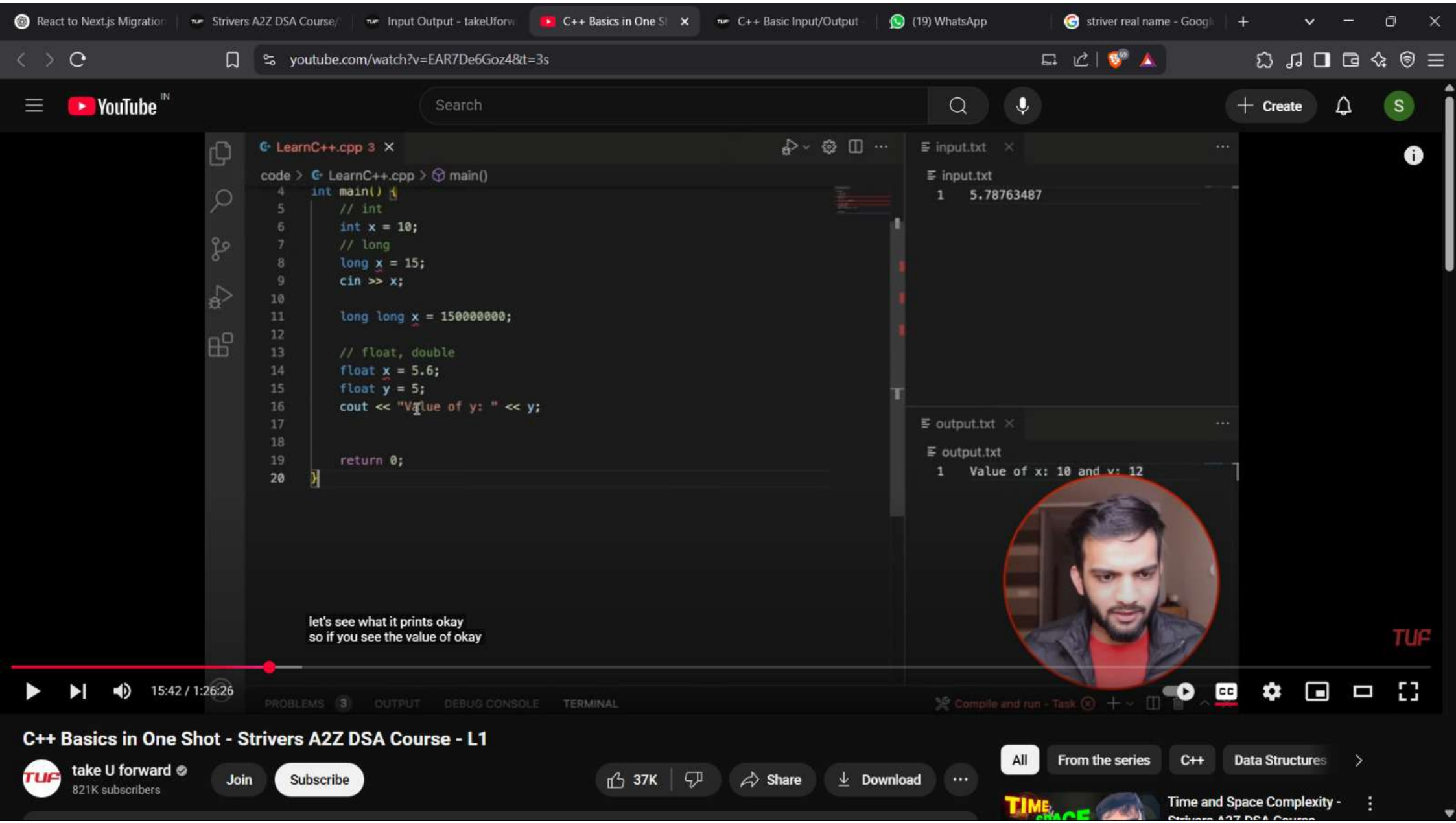

# C++ Basics in One Shot - Strivers A2Z DSA Course - L1

take U forward
821K subscribers

Join | Subscribe | 37K | Share | Download

All | From the series | C++ | Data Structures

Time and Space Complexity - Strivers A2Z DSA Course



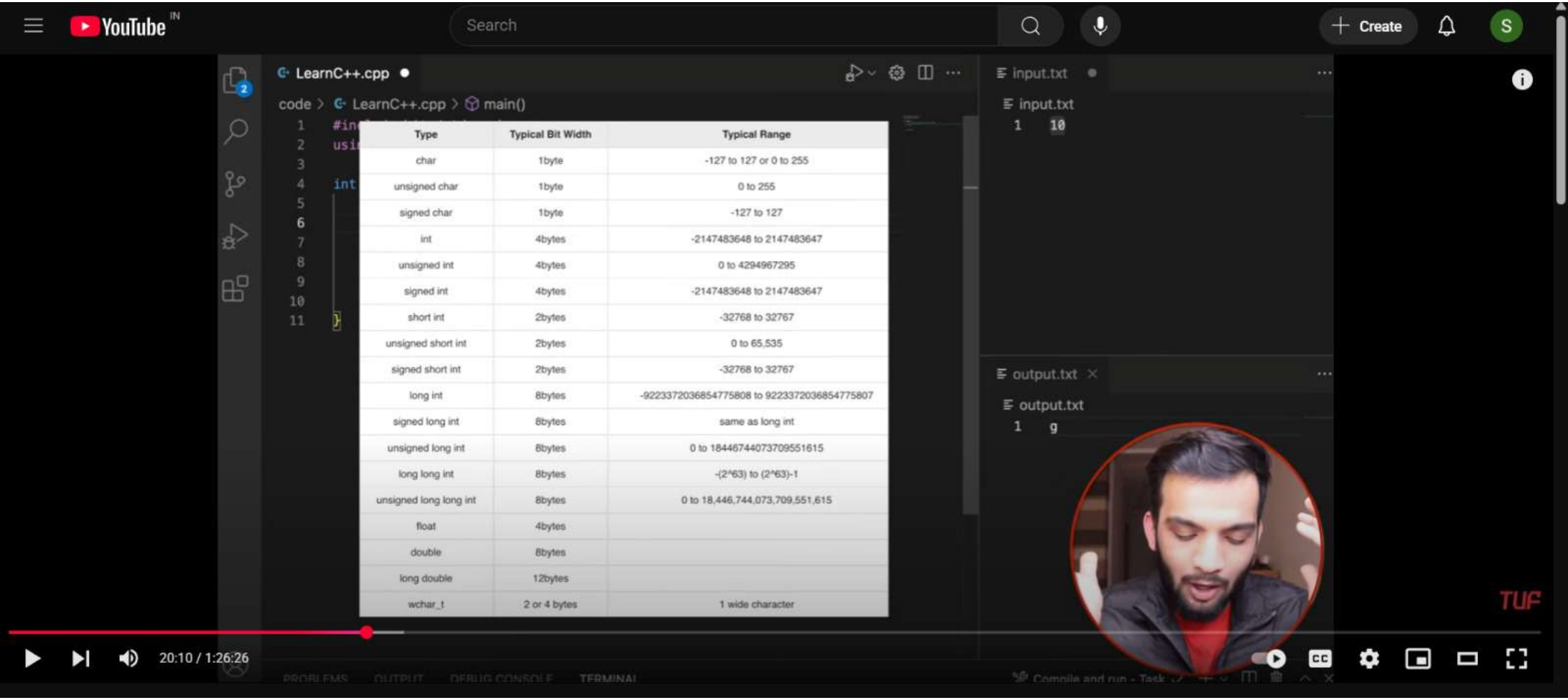

# C++ Basics in One Shot - Strivers A2Z DSA Course - L1

take U forward
821K subscribers

Join | Subscribe | 37K | Share | Download

All | From the series | C++ | Data Structures

Time and Space Complexity - Strivers A2Z DSA Course




| Type | Typical Bit Width | Typical Range |
|---|---|---|
| char | 1byte | -127 to 127 or 0 to 255 |
| unsigned char | 1byte | 0 to 255 |
| signed char | 1byte | -127 to 127 |
| int | 4bytes | -2147483648 to 2147483647 |
| unsigned int | 4bytes | 0 to 4294967295 |
| signed int | 4bytes | -2147483648 to 2147483647 |
| short int | 2bytes | -32768 to 32767 |
| unsigned short int | 2bytes | 0 to 65,535 |
| signed short int | 2bytes | -32768 to 32767 |
| long int | 8bytes | -9223372036854775808 to 9223372036854775807 |
| signed long int | 8bytes | same as long int |
| unsigned long int | 8bytes | 0 to 18446744073709551615 |
| long long int | 8bytes | -(2^63) to (2^63)-1 |
| unsigned long long int | 8bytes | 0 to 18,446,744,073,709,551,615 |
| float | 4bytes | |
| double | 8bytes | |
| long double | 12bytes | |
| wchar_t | 2 or 4 bytes | 1 wide character |

# C++ Basics in One Shot - Strivers A2Z DSA Course - L1

code > LearnC++.cpp > main()

```cpp
#include<bits/stdc++.h>
using namespace std;
// Write a program that takes an input of age
// and prints if you are adult or not
// >= 18, yes
// < 18, no
int main() {
    int age;
    cin >> age;
    if(age >= 18) {
        cout << "You are an adult!";
    }
    else if(age<10){
        cout << "You are not an adult!";
    }
    return 0;
}
```

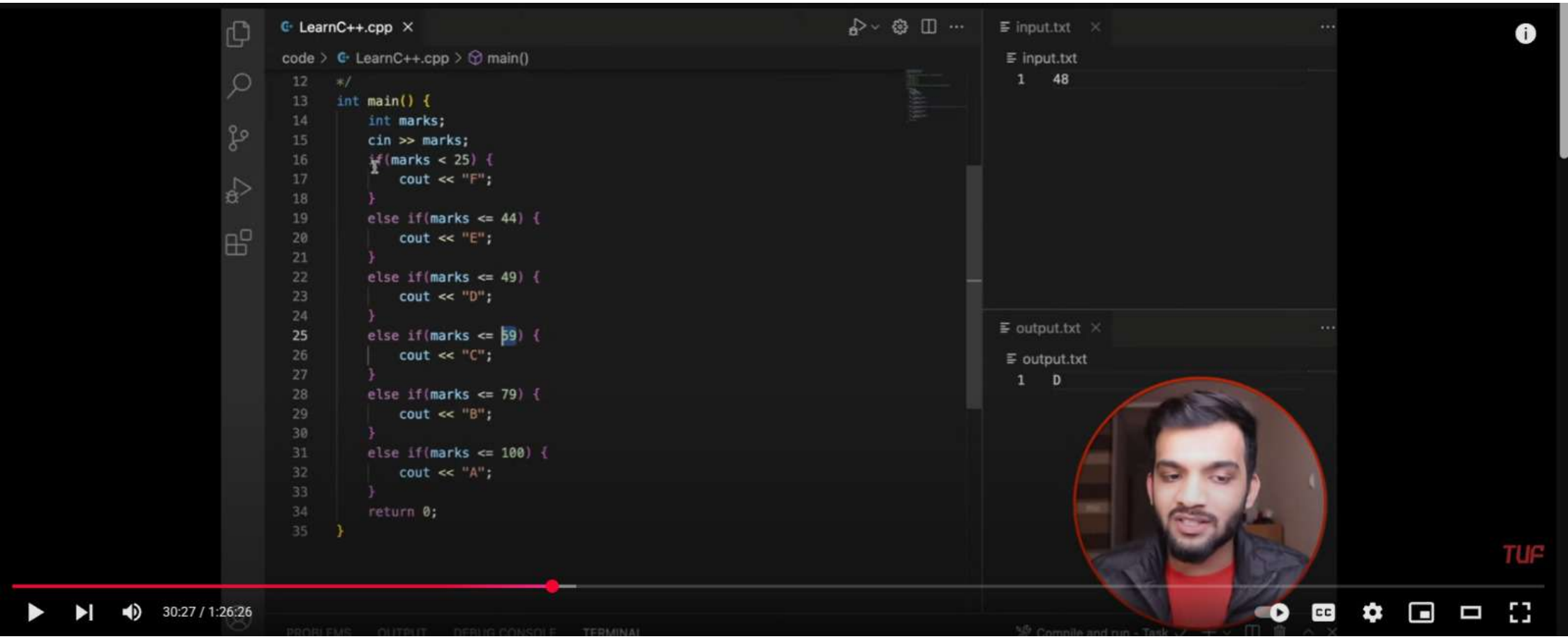
input.txt

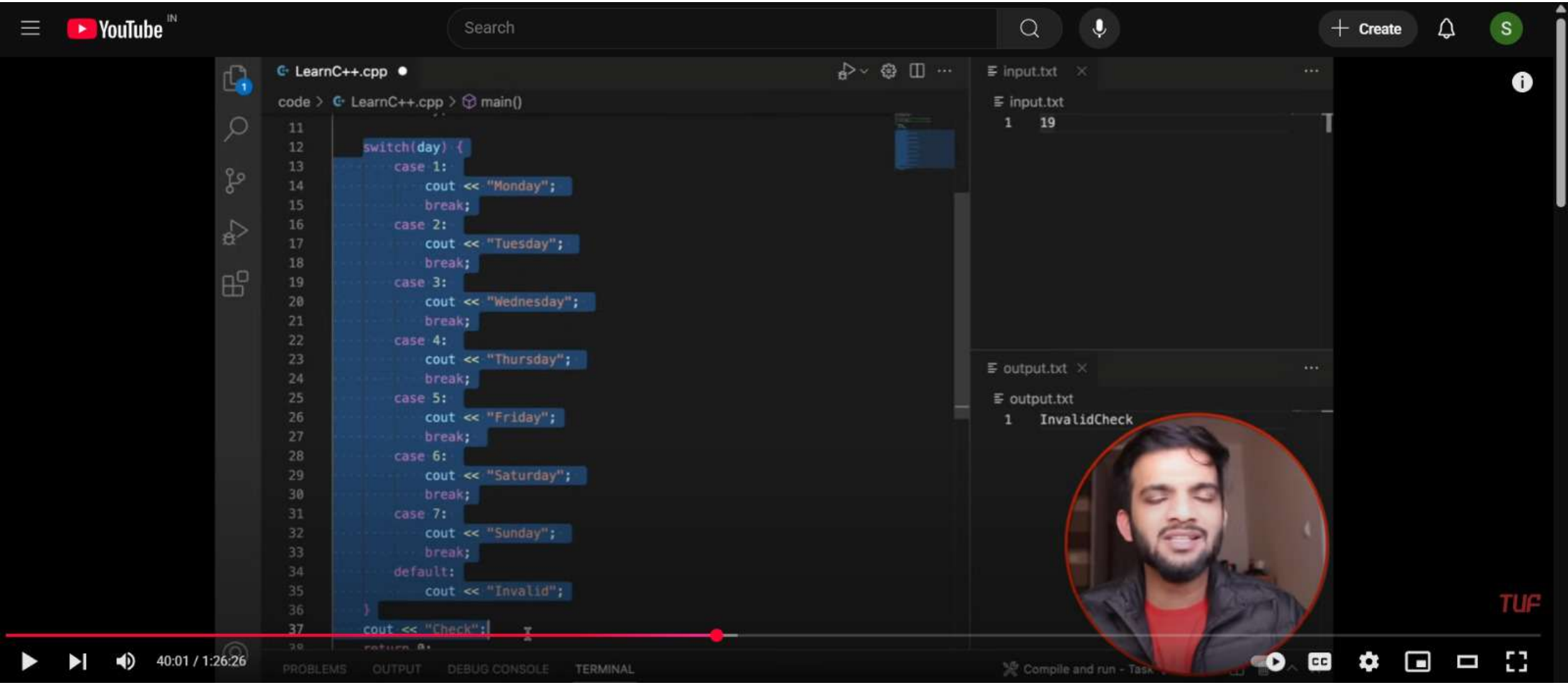
```
1    9
```

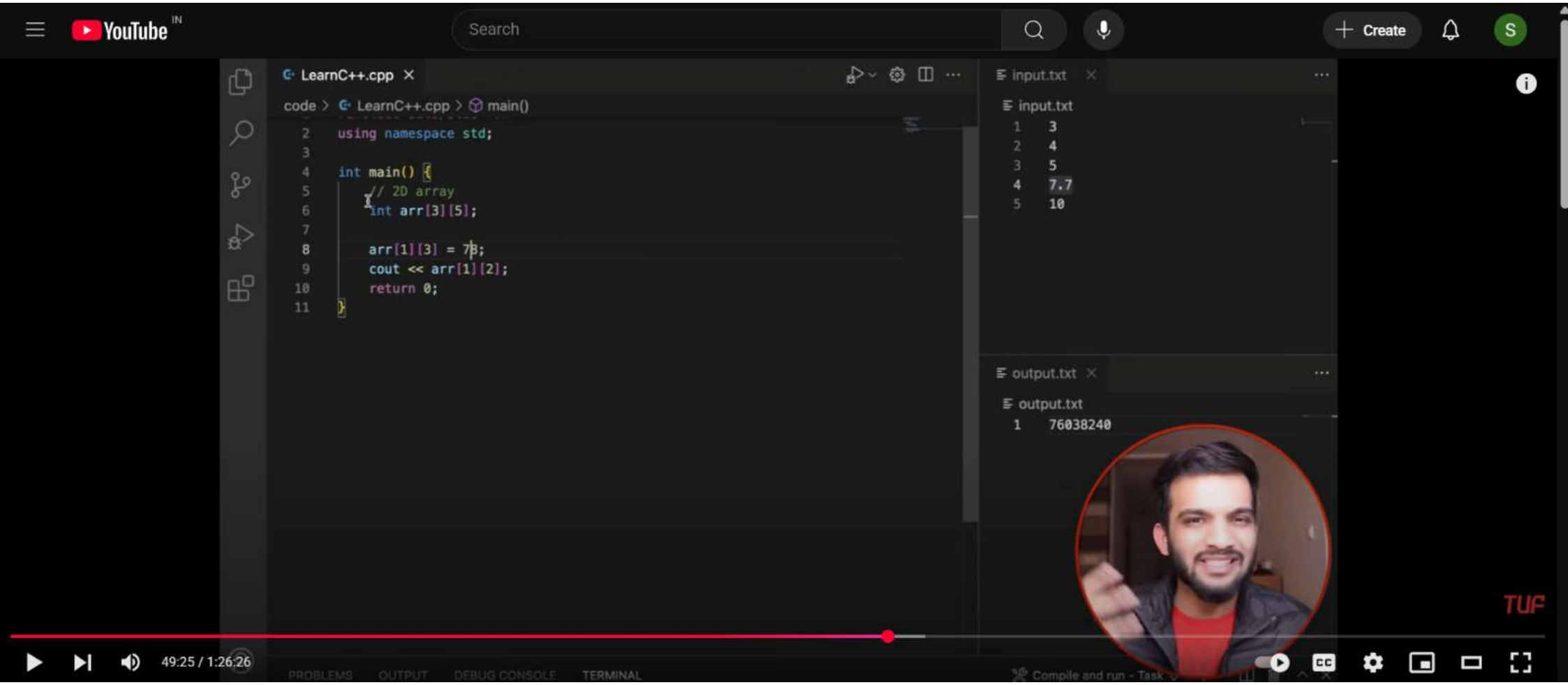
output.txt

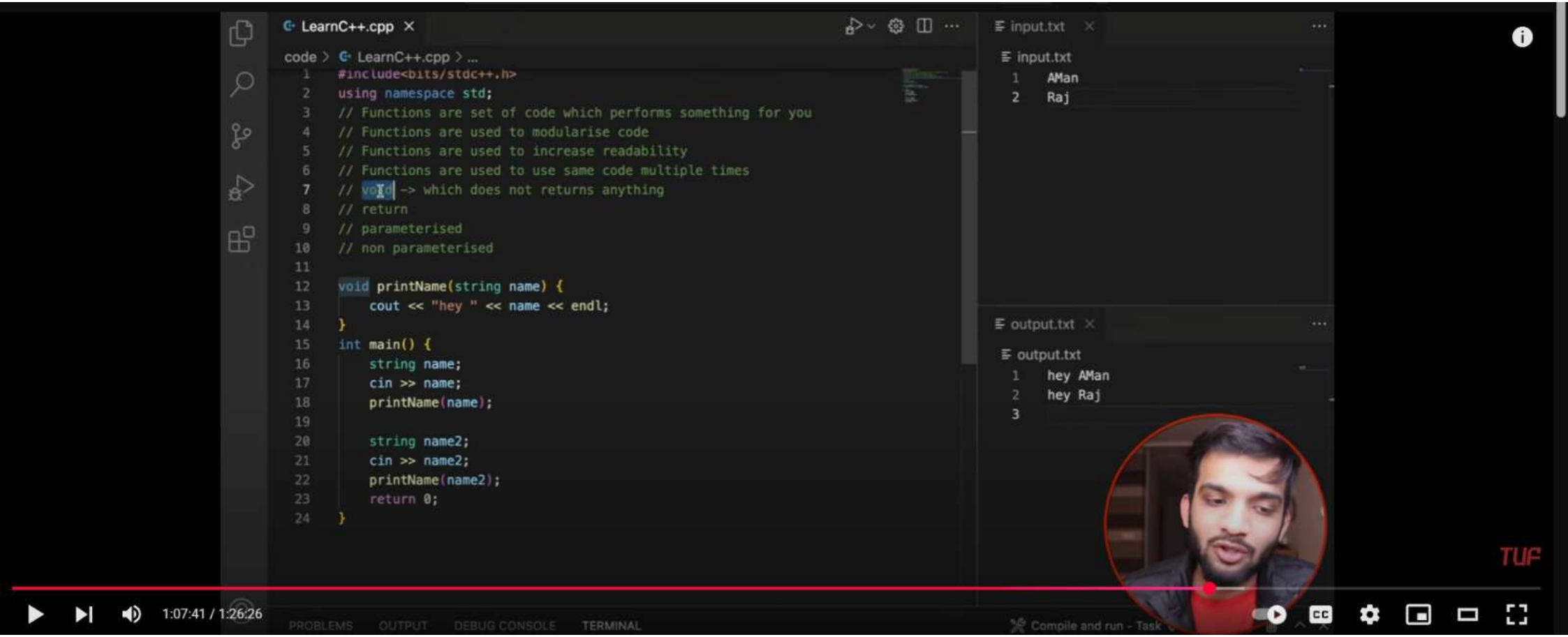
```
1    You are not an
```

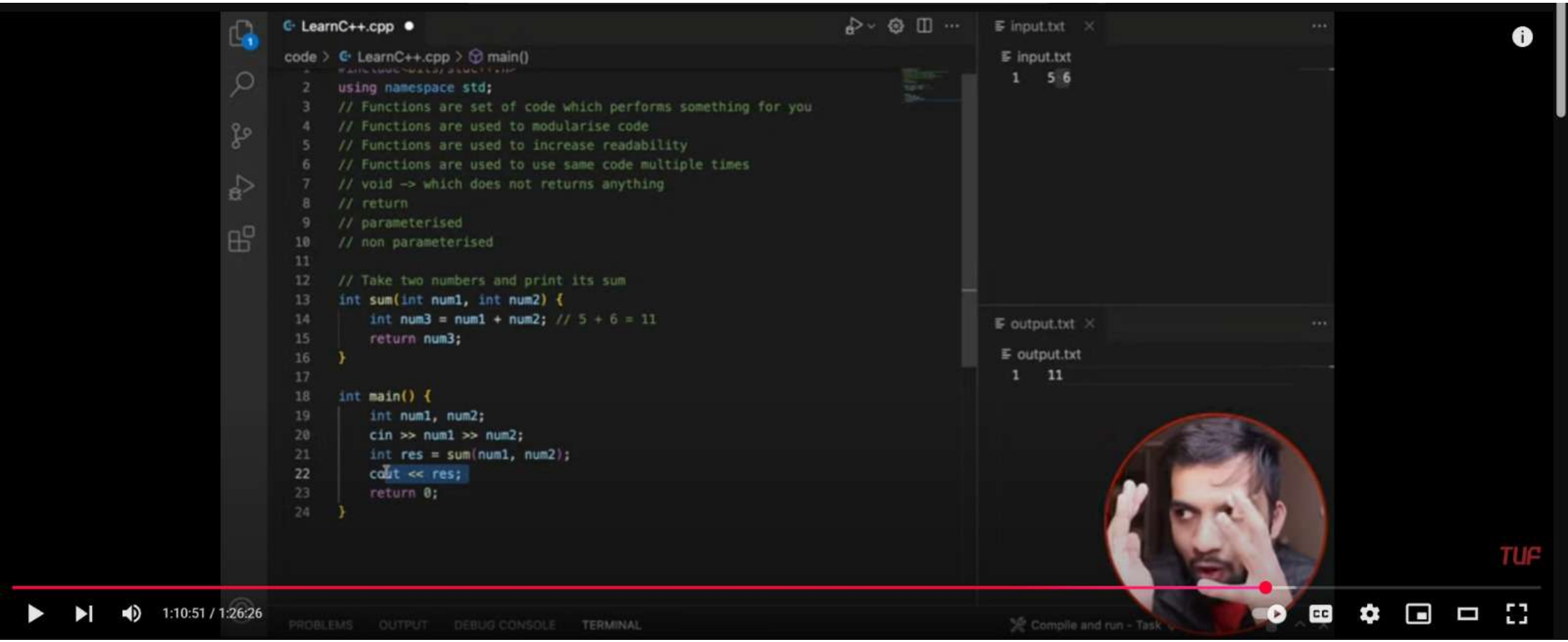
25:36 / 1:26:26

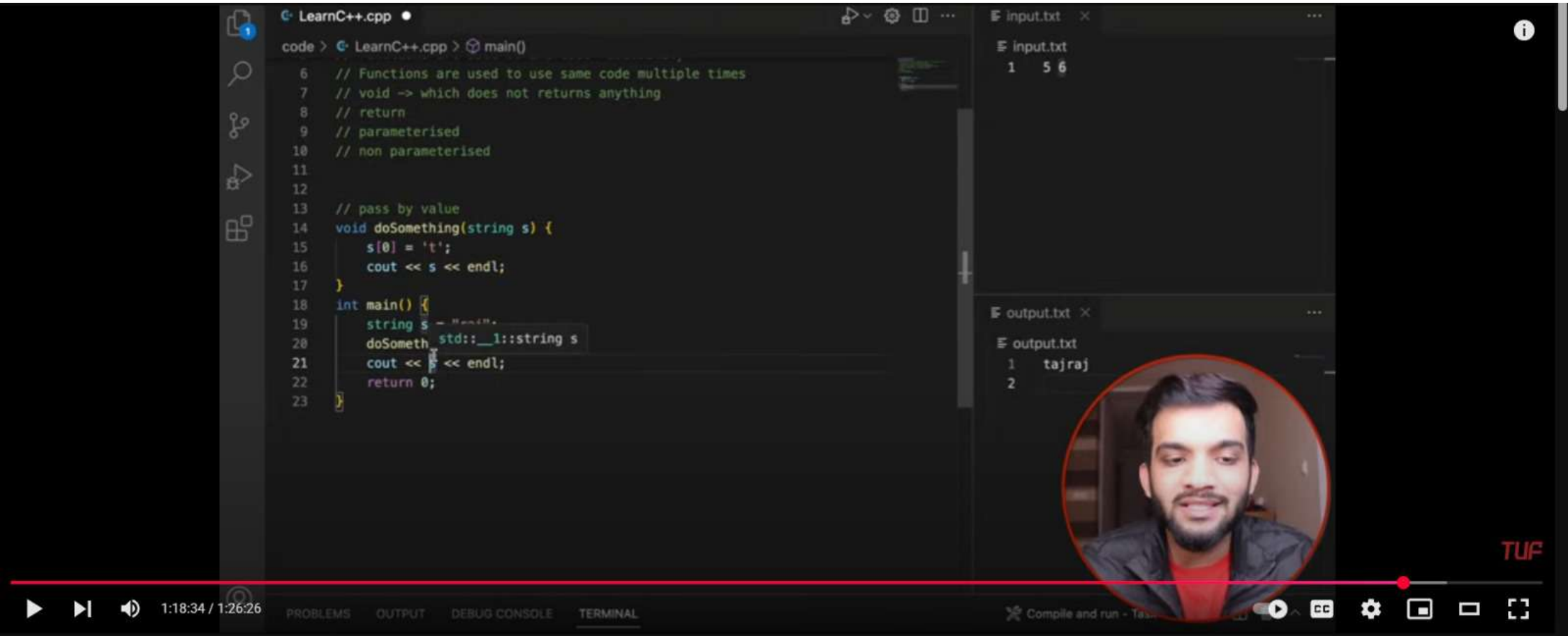

LearnC++.cpp
code > LearnC++.cpp > main()
*/
int main() {
int marks;
cin >> marks;
if(marks < 25) {
cout << "F";
}
else if(marks <= 44) {
cout << "E";
}
else if(marks <= 49) {
cout << "D";
}
else if(marks <= 59) {
cout << "C";
}
else if(marks <= 79) {
cout << "B";
}
else if(marks <= 100) {
cout << "A";
}
return 0;
}
input.txt
input.txt
1 48
output.txt
output.txt
1 D
30:27 / 1:26:26
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
TUF

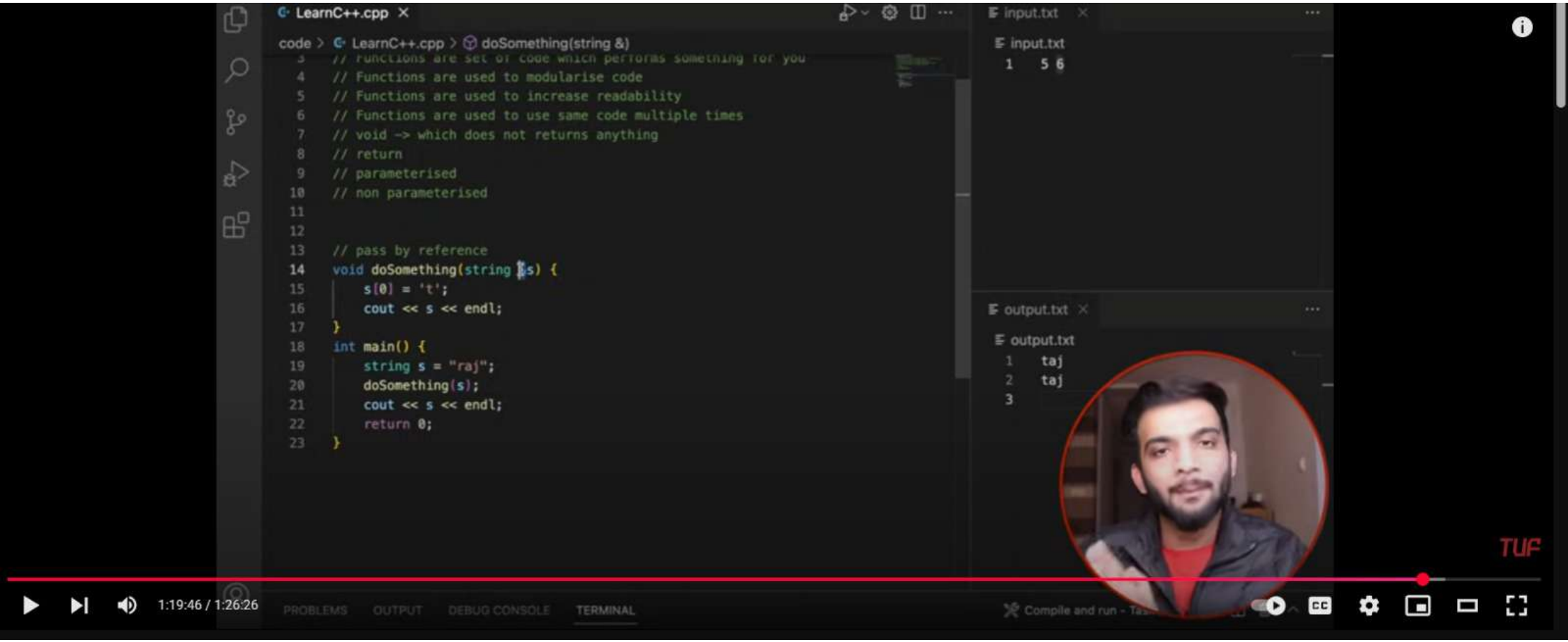

YouTube IN
Search
Create
S
LearnC++.cpp
code > LearnC++.cpp > main()
11
12 switch(day) {
13 case 1:
14 cout << "Monday";
15 break;
16 case 2:
17 cout << "Tuesday";
18 break;
19 case 3:
20 cout << "Wednesday";
21 break;
22 case 4:
23 cout << "Thursday";
24 break;
25 case 5:
26 cout << "Friday";
27 break;
28 case 6:
29 cout << "Saturday";
30 break;
31 case 7:
32 cout << "Sunday";
33 break;
34 default:
35 cout << "Invalid";
36 }
37 cout << "Check";
input.txt
input.txt
1 19
output.txt
output.txt
1 InvalidCheck
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Compile and run - Task
40:01 / 1:26:26
TUF

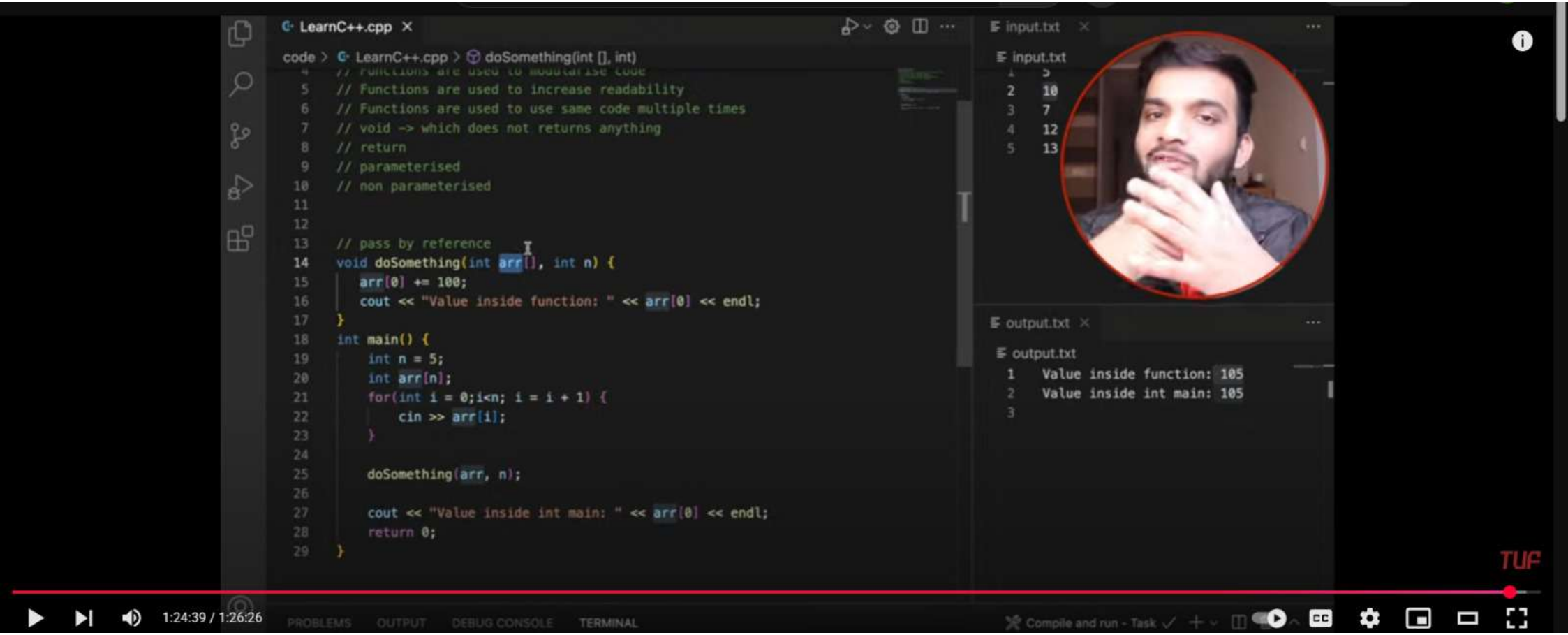

YouTube IN
Search
Create
S
LearnC++.cpp
code > LearnC++.cpp > main()
using namespace std;
int main() {
// 2D array
int arr[3][5];
arr[1][3] = 7;
cout << arr[1][2];
return 0;
}
input.txt
input.txt
3
4
5
7.7
10
output.txt
output.txt
76038240
TUF
49:25 / 1:26:26
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Compile and run - Task


LearnC++.cpp
code > LearnC++.cpp > ...
#include<bits/stdc++.h>
using namespace std;
// Functions are set of code which performs something for you
// Functions are used to modularise code
// Functions are used to increase readability
// Functions are used to use same code multiple times
// void -> which does not returns anything
// return
// parameterised
// non parameterised
void printName(string name) {
cout << "hey " << name << endl;
}
int main() {
string name;
cin >> name;
printName(name);
string name2;
cin >> name2;
printName(name2);
return 0;
}
input.txt
input.txt
1 AMan
2 Raj
output.txt
output.txt
1 hey AMan
2 hey Raj
3
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Compile and run - Task
1:07:41 / 1:26:26
TUF


LearnC++.cpp
code > LearnC++.cpp > main()
using namespace std;
// Functions are set of code which performs something for you
// Functions are used to modularise code
// Functions are used to increase readability
// Functions are used to use same code multiple times
// void -> which does not returns anything
// return
// parameterised
// non parameterised
// Take two numbers and print its sum
int sum(int num1, int num2) {
int num3 = num1 + num2; // 5 + 6 = 11
return num3;
}
int main() {
int num1, num2;
cin >> num1 >> num2;
int res = sum(num1, num2);
cout << res;
return 0;
}
input.txt
input.txt
1 5 6
output.txt
output.txt
1 11
1:10:51 / 1:26:26
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Compile and run - Task
TUF


LearnC++.cpp
code > LearnC++.cpp > main()
// Functions are used to use same code multiple times
// void -> which does not returns anything
// return
// parameterised
// non parameterised
// pass by value
void doSomething(string s) {
s[0] = 't';
cout << s << endl;
}
int main() {
string s
doSometh
std::__1::string s
cout <<
<< endl;
return 0;
}
input.txt
input.txt
1 5 6
output.txt
output.txt
1 tajraj
2
1:18:34 / 1:26:26
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Compile and run
TUF


LearnC++.cpp
code > LearnC++.cpp > doSomething(string &)
// Functions are set of code which performs something for you
// Functions are used to modularise code
// Functions are used to increase readability
// Functions are used to use same code multiple times
// void -> which does not returns anything
// return
// parameterised
// non parameterised
// pass by reference
void doSomething(string &s) {
s[0] = 't';
cout << s << endl;
}
int main() {
string s = "raj";
doSomething(s);
cout << s << endl;
return 0;
}
input.txt
input.txt
1 5 6
output.txt
output.txt
1 taj
2 taj
3
1:19:46 / 1:26:26
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Compile and run
TUF


LearnC++.cpp
code > LearnC++.cpp > doSomething(int [], int)
// Functions are used to increase readability
// Functions are used to use same code multiple times
// void -> which does not returns anything
// return
// parameterised
// non parameterised
// pass by reference
void doSomething(int arr[], int n) {
arr[0] += 100;
cout << "Value inside function: " << arr[0] << endl;
}
int main() {
int n = 5;
int arr[n];
for(int i = 0;i<n; i = i + 1) {
cin >> arr[i];
}
doSomething(arr, n);
cout << "Value inside int main: " << arr[0] << endl;
return 0;
}
input.txt
input.txt
5
10
7
12
13
output.txt
output.txt
Value inside function: 105
Value inside int main: 105
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Compile and run - Task
1:24:39 / 1:26:26
TUF