Hi, in this short video,

we will solve a code problem together. The problem itself is quite elementary. So the main purpose of this v

to show you the general pipeline of solving code problems in this class. The problem is called A plus B. In t

digits on the standard input and our goal is to output their

sum on the standard output. You can see two sample

tests here on the page. For example, if the input for your

program consists of the integers 3 and 2, then your program should output 5. If, on the other hand, the inpu

consists of two integers 7 and 9, then your program is supposed

to output 16, of course. The next section consists

of three Starter files. Which in this particular case are actually

solutions, not just starter files. So the files are for programming

languages Python, Java, and C++. Finally the last section

contains an instruction consisting of four steps on

how to solve this problem. So let's go through these

four steps together. The first step is to download

one of the starter files. For this, let's select the C++

starter file, and let's download it. Okay. Now the file is here and

let's take a look inside. So, this is a very simple solution which,

first, creates three variables. Then it reads a and

b from the standard input. Then it computes the sum. And then finally it outputs

the sum on the standard output. So to run this program we

first need to compile it. So this is the second

step of our instruction. For this we highly

recommend to use the same compiler flags that are shown on this page. This will ensure that your

program behaves in the same way on the testing system and

on your local machine. So in this case let's

just copy the flags and use it to compile our program. So this produced an executable

file a.out and we can now run it. Let's give this program for

example 2 and 3. So the output is 5. Well, one more test. 9 and 4, the output is 13 as expected. So far, so

submit this solution to this problem. Let's go to my submission tab. Press create submission,

then replace a file by this .cpp file And press the Submit button. So after a while, the testing system shows

which is quite satisfactory. In this particular case,

the grader output is empty, meaning that there is no

error message in this case. To illustrate it one more time, let me

repeat the whole procedure quickly for the Python programming language. So we first download

the starter Python file. Let's take a look at what is inside. So the program is again

very simple as expected. So we just take a and be from the standard

input and we output the sum of a and b. Now we need to run this program for this you might want to go to t

available programming languages page. Again just to check how we

run Python scripts so we just use Python, Python 3. So let's do this. For example 4, 4 and

the output is 8 which is as expected. So let's just go ahead and

submit this solution. So you go to the my submission tab,

you press the Create Submission button and then you replace this file by APlusB.py. So when the file is up

you finally press the Submit button. So in a few seconds, this solution will

be accepted by the testing system. Well this wasn't very challenging, right? In the next video we will see a

a computational problem. For this problem we will

start with a naive solution. We will submit this solution to a testing

system to figure out that it is buggy actually. That there is a bug. So we will fix this bug, submit it again,

to find out that our solution is slow. We will get a time limit exceeded

feedback message from the testing system. Meaning that for large data sets it works

in more than one second, for example. So this will require us to come up

with a much, more faster solution. We will implement it,

submit it to the system, again, to find out that it is still buggy. We will use stress testing to

locate the bug, to fix it, and to finally submit a correct solution to

the system which will pass all the tests.