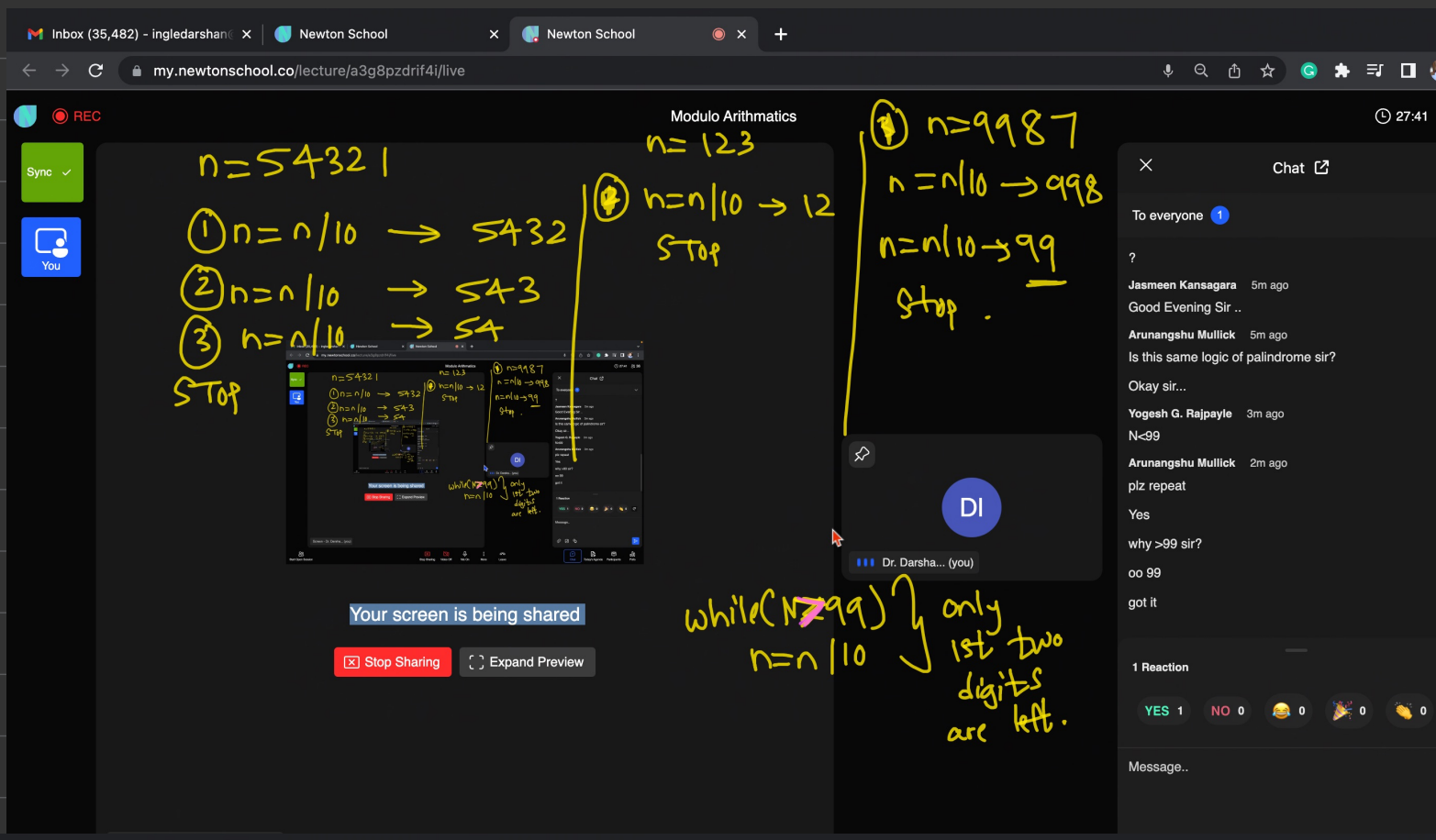
11 May 2023

https://my.newtonschool.co/playground/code/yrw1lpbdji18



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Problem Statement

int rev=0;

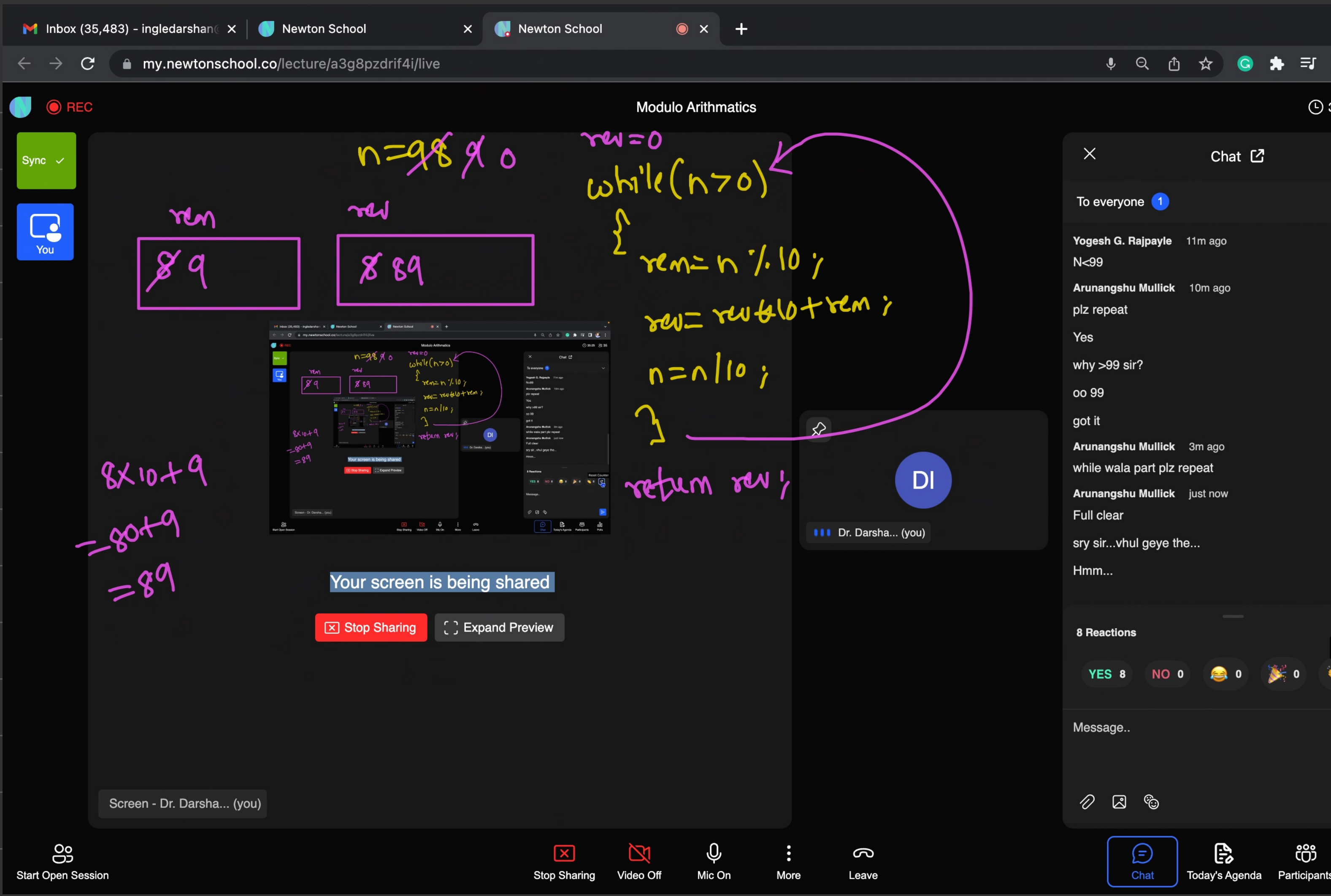
Given a number N your task is to print its first two digits in reverse order. For eg:- If the given number is 123 then the output will be 21.

n=98
while(n>0)
rem=n%10; //rem=8 rem=9
rev=rev*10+rem; //rev=8 8*10+9
n=n/10; // n=9 n=0
return rev

Input

User Task:

Since this will be a functional problem, you don't have to take input. You just have to complete the function **firstTwo()** that takes integer N argument.



Inbox (35,483) - ingledarshan
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my.newtonschool.co/lecture/a3g8pzdrif4i/live
REC
Modulo Arithmatics
Sync
You
n=98 9 0
rem
rev
8 9
8 89
rev=0
while(n>0)
{
rem= n % 10 ;
rev= rev*10+rem ;
n=n/10 ;
}
return rev ;
8x10+9
=80+9
=89
Your screen is being shared
Stop Sharing
Expand Preview
Screen - Dr. Darsha... (you)
DI
Dr. Darsha... (you)
Chat
To everyone
Yogesh G. Rajpayle 11m ago
N<99
Arunangshu Mullick 10m ago
plz repeat
Yes
why >99 sir?
oo 99
got it
Arunangshu Mullick 3m ago
while wala part plz repeat
Arunangshu Mullick just now
Full clear
sry sir...vhul geye the...
Hmm...
8 Reactions
YES 8
NO 0
Message..
Start Open Session
Stop Sharing
Video Off
Mic On
More
Leave
Chat
Today's Agenda
Participants

Bitwise Operations

Bitwise &

a	b	a & b
0	0	0
0	1	0
1	0	0
1	1	1

Bitwise |

a	b	a | b
0	0	0
0	1	1
1	0	1
1	1	1

Bitwise XOR:

a	b	a ^ b
0	0	0
0	1	1
1	0	1
1	1	0

XOR Properties: $a \wedge b = c \implies a \wedge c = b \implies b \wedge c = a$

$$b \wedge b = 0$$

$$(a \wedge b)(c \wedge b) = a \wedge c$$

To swap (a, b) using XOR:

$$a = a \wedge b$$
$$b = a \wedge b$$
$$a = a \wedge b$$

eg: a = 1011
b = 0110

a∧b = 1011
∧ 0110
---
a = 1101

a∧b = 1101
0110
---
b = 1011

a∧b : 1101
1011
---
a = 0110

a = 0110
b = 1011

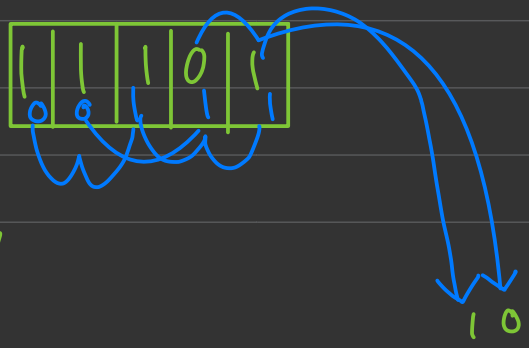
Bitwise NOT: ∼a

a	∼a
0	1
1	0

Right Shift >>

a = 29 (11101) & x = 2

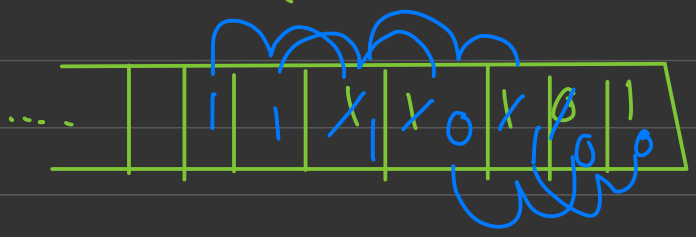
∴ a >> 2 means



∴ a = 111 i.e. 7

Left Shift Operator:

a = 29 (11101) & a<<2



∴ a = 11101 00
= 116