Beste Öztop 2375624
Deniz Karakay 2443307

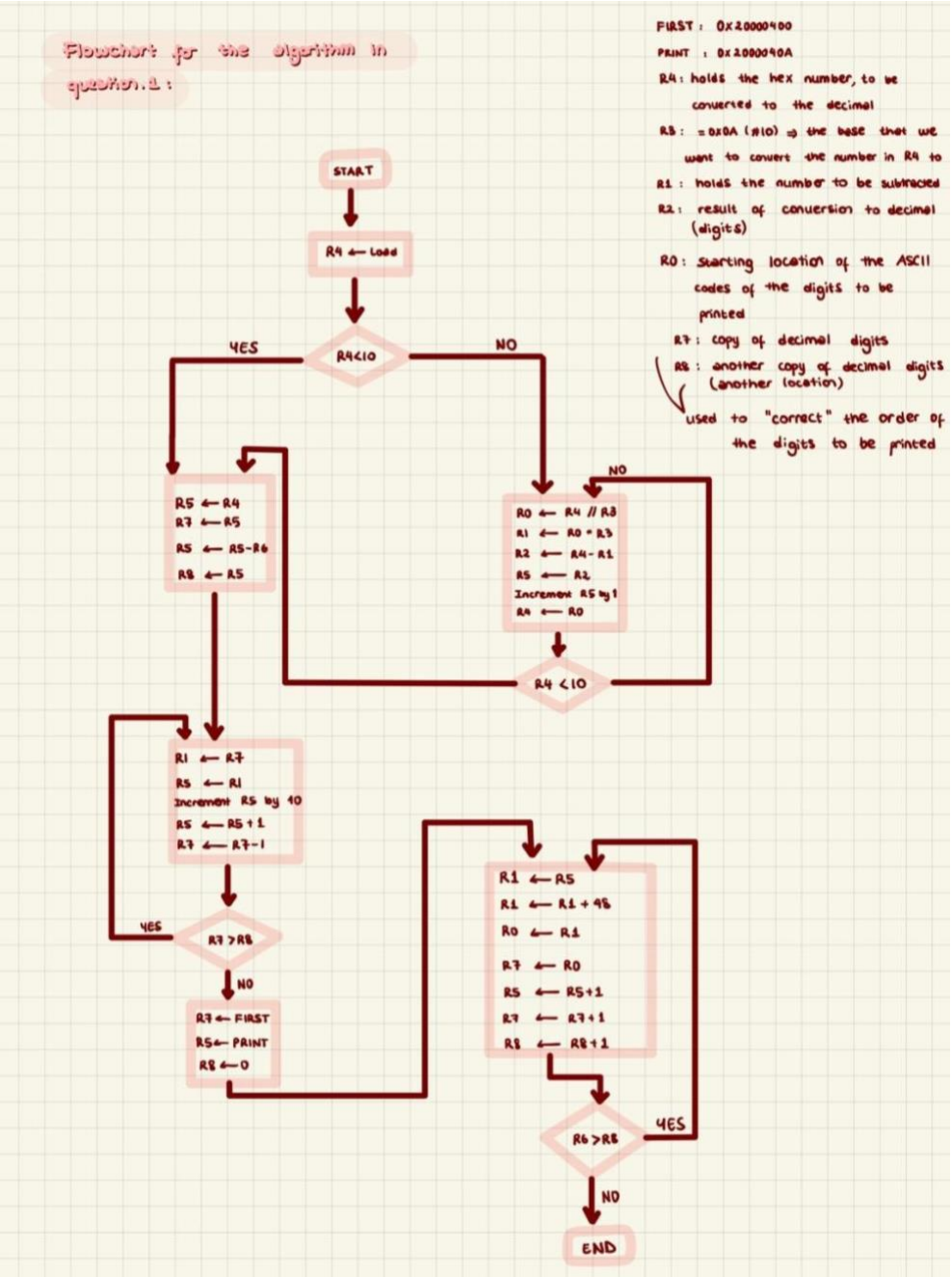
30.10.2022

EE447 Introduction to Microprocessors

Laboratory Work – 2 Preliminary Report

Question-1

Flow chart for the algorithm in this question is as follows:



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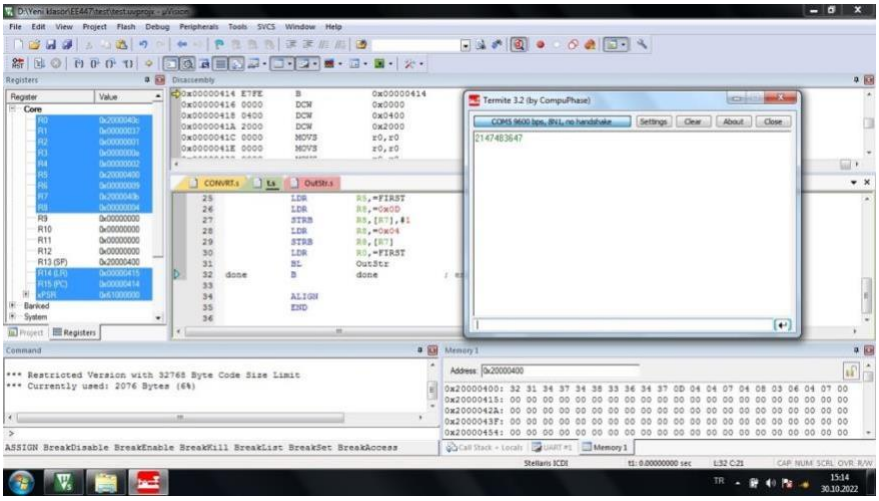
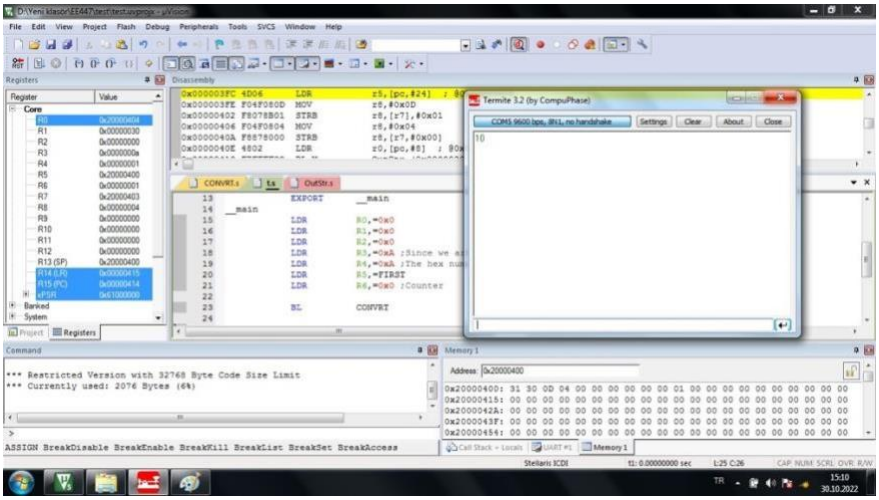
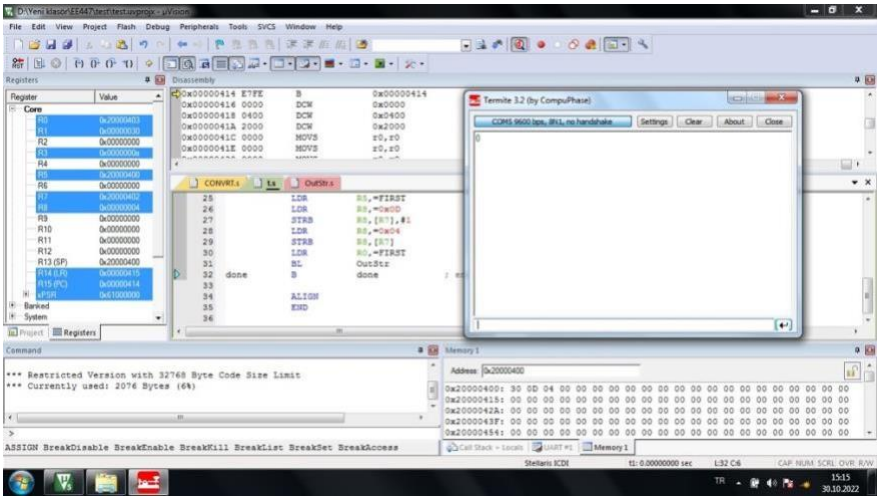
The screenshot of the example printings:



Max value:
R4 : 0x7FFFFFFF
2147483647 printed



R4: 0x0000000A
10 printed

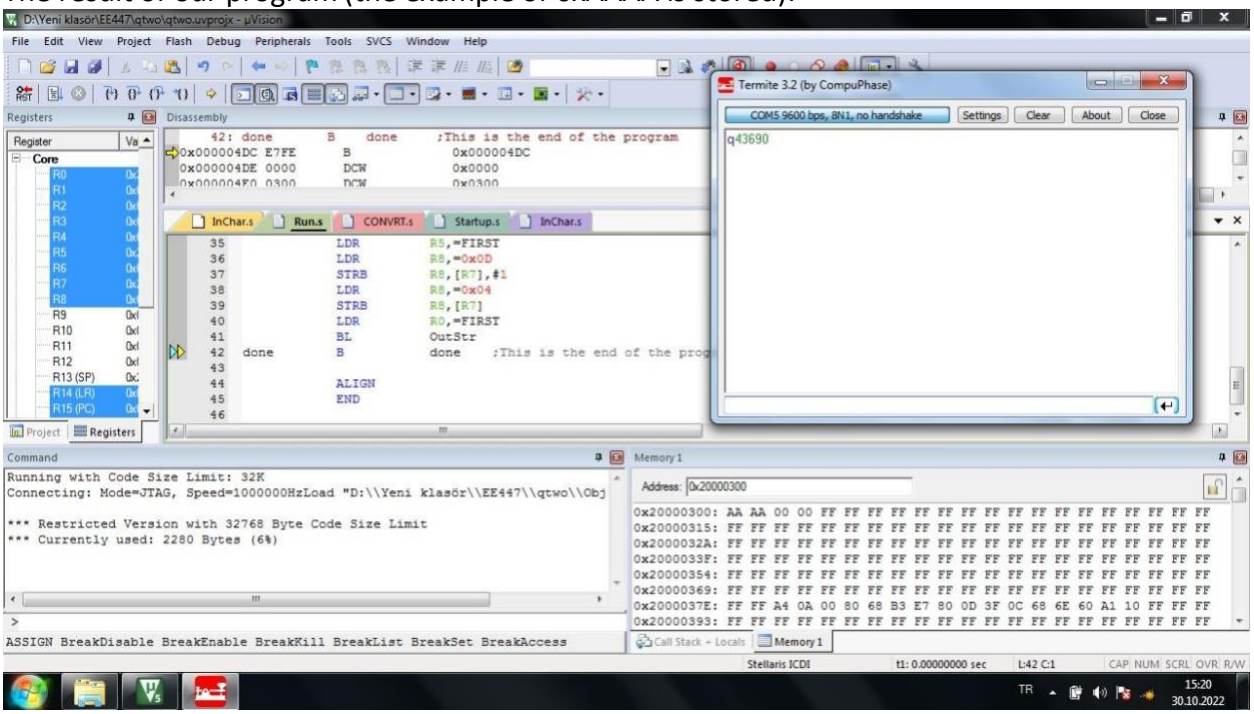


Min value
R4: 0x00000000
0 printed

Beste Öztop 2375624
Deniz Karakay 2443307 30.10.2022

Question-2

The result of our program (the example of 0xAAAA is stored):



Note that “q” is pressed in the Termite for the decimal number to be printed.

Explanation of the arguments passed: The arguments of the stored number’s location and the value of the number in that location are passed in our subroutine.

Beste Öztop 2375624
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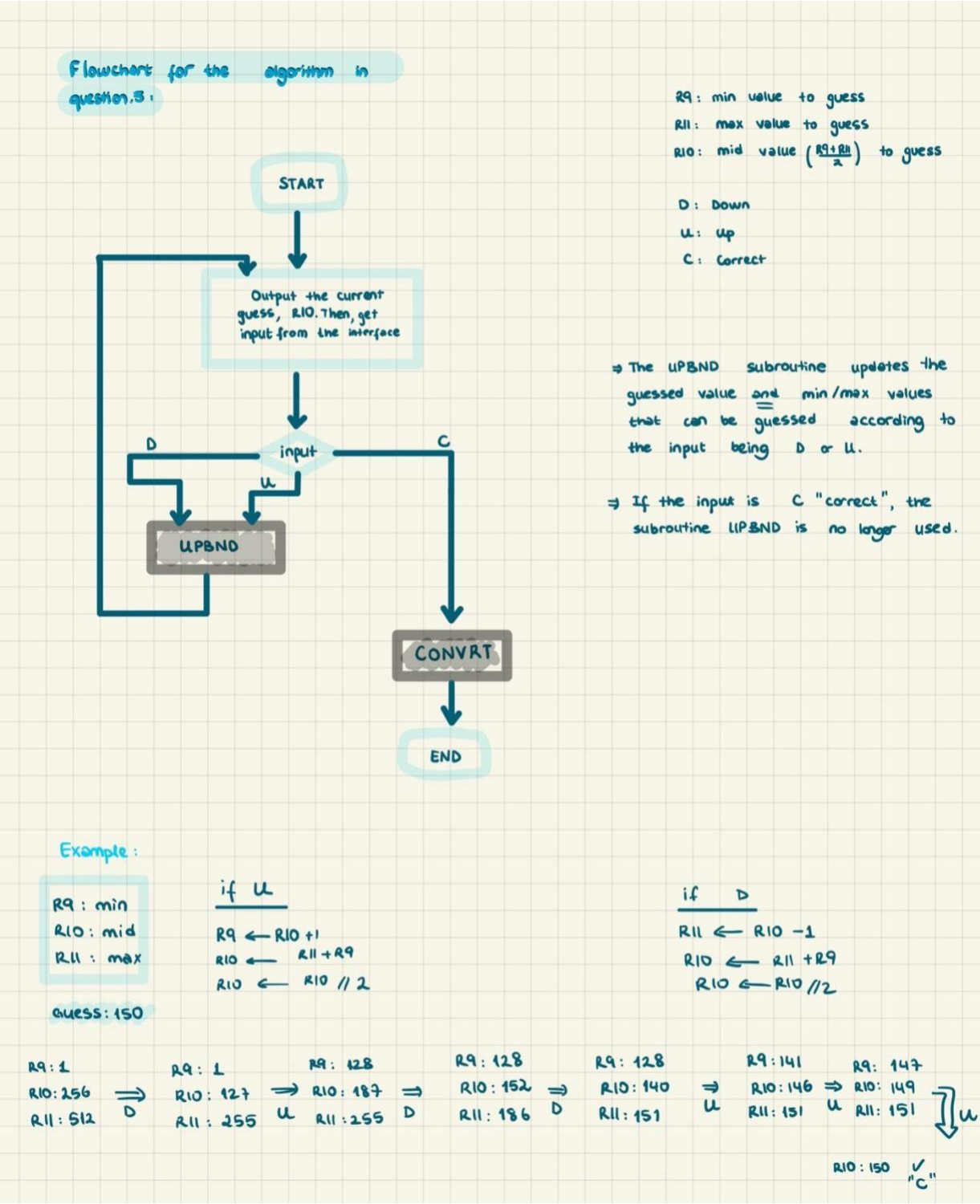
Question-3



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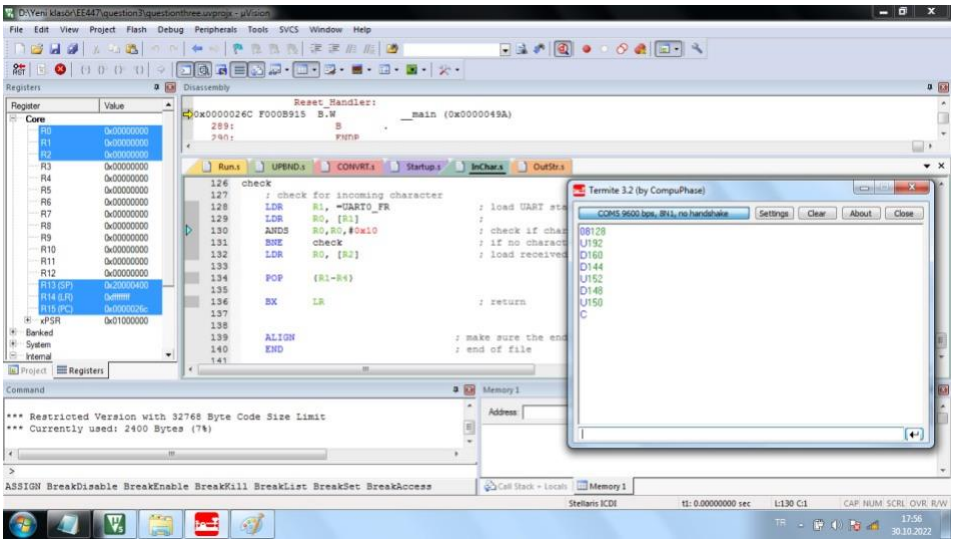
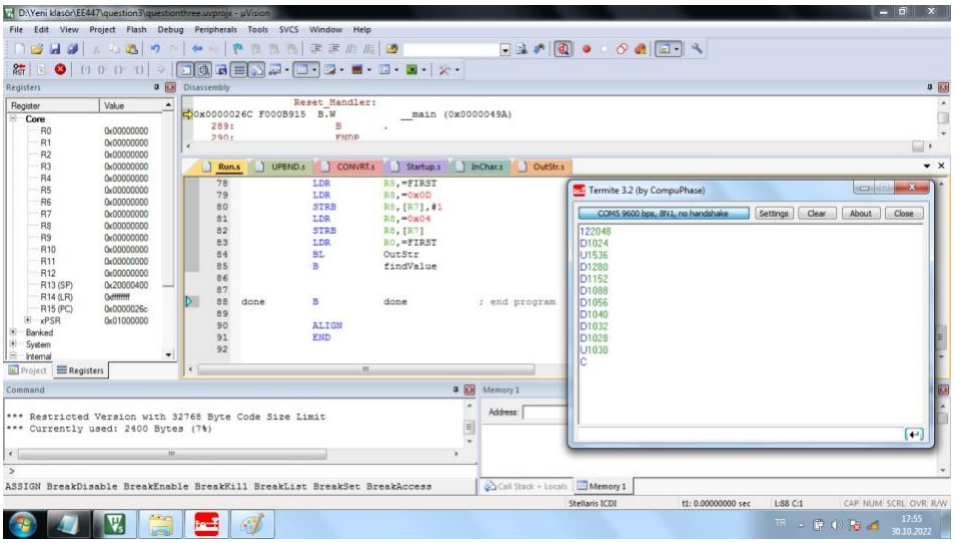
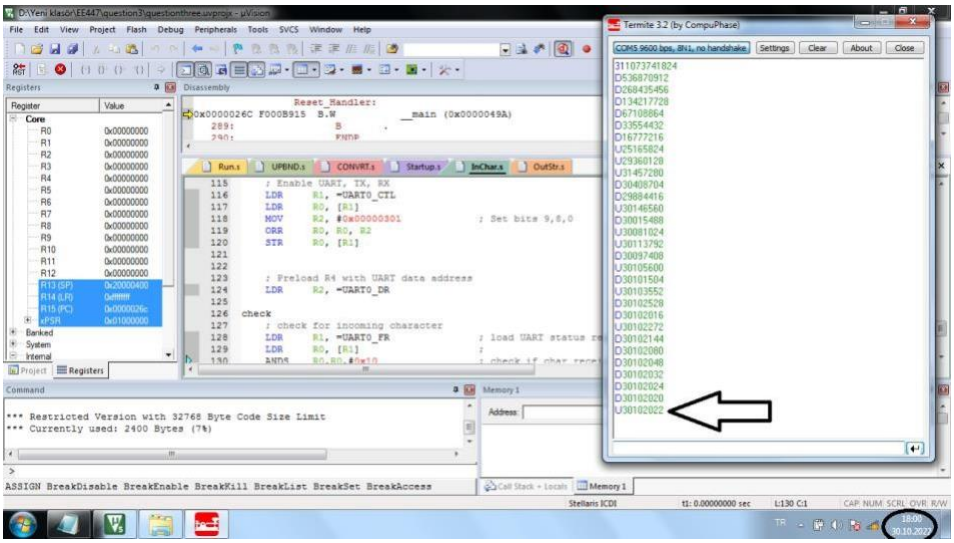


N=8
Guess:150



N=12
Guess:1030



N=31
Guess:30102022
(today's date)

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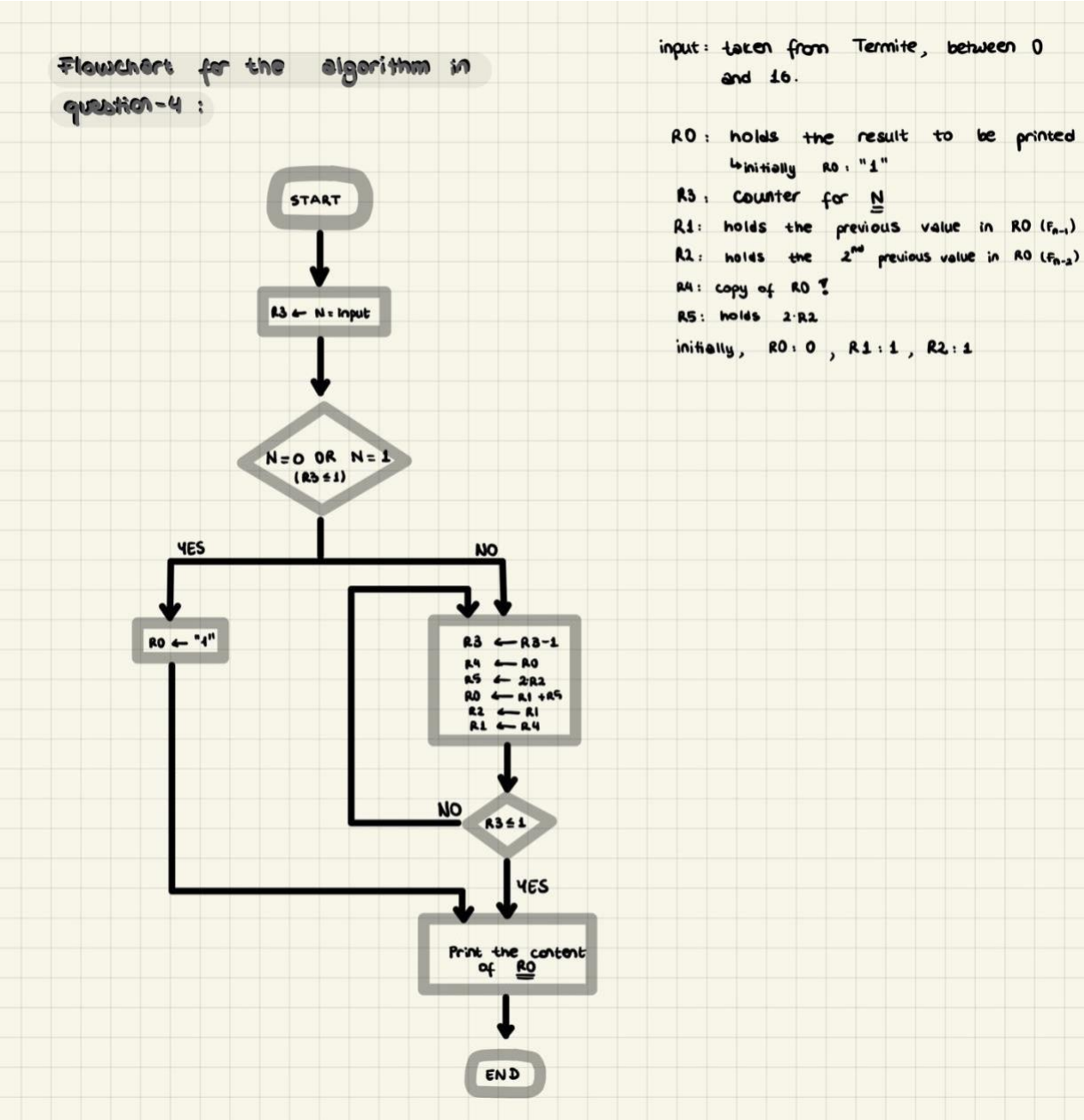
Question-4



You can find the printed sequence (in hex, not in dec) for N=5.
By adding CONVRT, we can also print the sequence of numbers in decimal.

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