

ABOUT ASSIGNMENTS:

Wed 10 Oct 2018

When stuck:

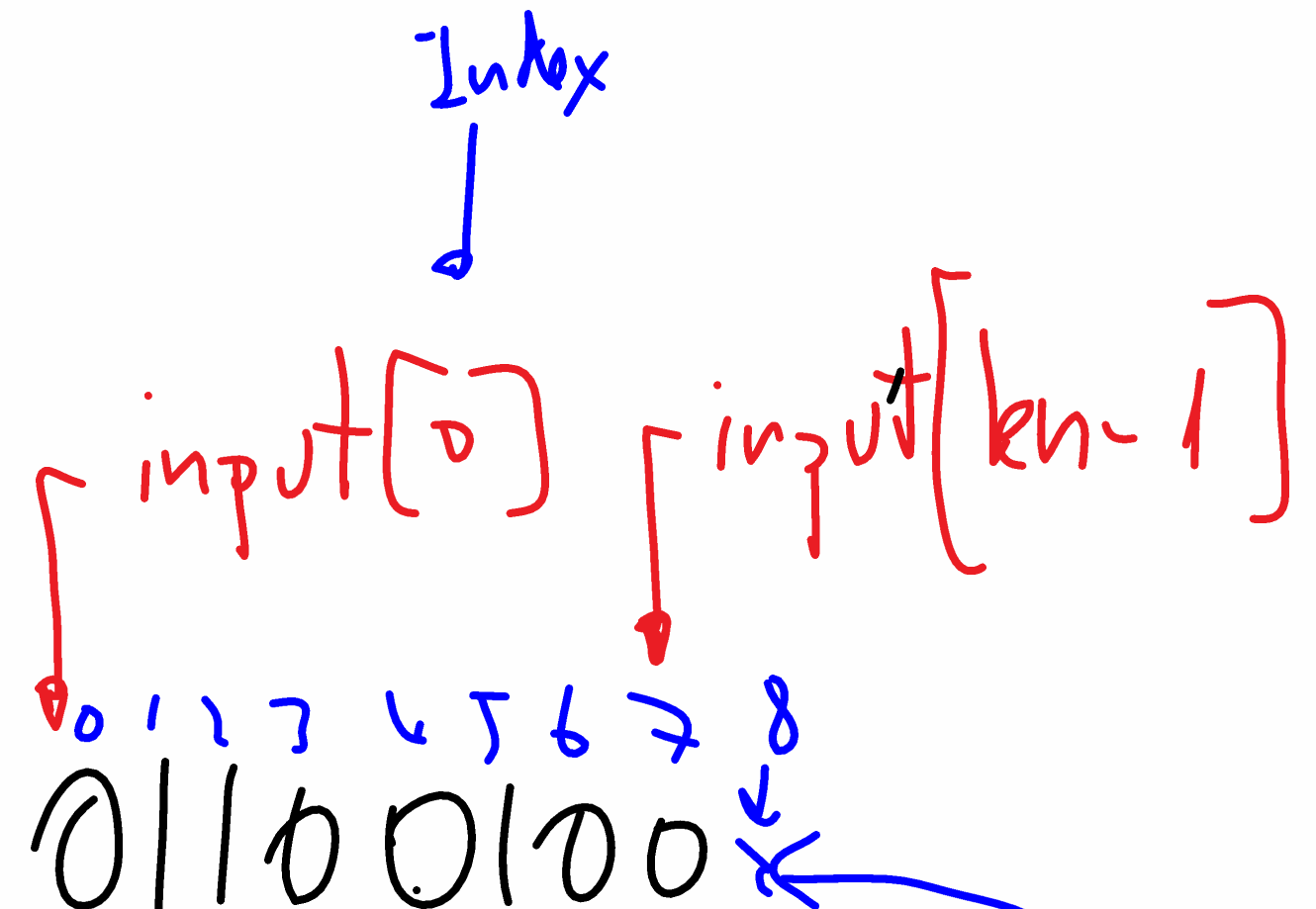
- Email Teacher!
(Don't hesitate)
- Ask your peers

Bin2Dec

var input = prompt() ←

var len = input.length

input[1]



index $\times 12^6 + 1 \times 2^5 + 0 \times 2^4 + 0 \times 2^3 + 1 \times 2^2 + 0 \times 2 + 0 \times 2^0$

PSEUDO-CODE FOR BIN2DEC

0 | 1 0 0 1 0 0

bin $\leftarrow$ input string from user

$0 \cdot 2^7 + 1 \cdot 2^6 + 0 \cdot 2^5 + 0 \cdot 2^4 + 1 \cdot 2^3 + 0 \cdot 2^2 + 0 \cdot 2^1 + 0 \cdot 2^0$

len $\leftarrow$ length of string bin

$7 \quad 6 \quad 5 \quad 4 \quad 3 \quad 2 \quad 1 \quad 0 = i$
 $7 \quad 6 \quad 5 \quad 4 \quad 3 \quad 2 \quad 1 \quad 0 = e$

dec $\leftarrow 0$ (this will contain the result at the end)

i $\leftarrow$ len - 1

while (i ≥ 0)

$e = \text{len} - i - 1$
dec = dec + bin[i] $\cdot 2^e$

i = i - 1

$\rightarrow \text{Math.pow}(2, e)$