## Laboratory 6

16. Determine if a tree of type (2) is ballanced (the difference between the depth of two subtrees is equal to 1).

my Max 
$$(a, b) = \begin{cases} a, & \text{if } a > b \\ b, & \text{otherwise} \end{cases}$$

$$my Diff(a, b) = \begin{cases} a-b, & \text{if } a>b \\ b-a, & \text{otherwise} \end{cases}$$

my Get Septh 
$$(l_1 l_2 ... l_n) = \begin{cases} 0, & \text{if } m = 0 \\ 1 + & \text{my Max} (\text{my Get Septh} (l_2), \\ & \text{my Get Septh} (l_3)), \\ & \text{cHerwise} \end{cases}$$

muy Ballauced 
$$(l_1...l_m) = \begin{cases} tuue, & if m = 0 \\ mil, & if my kiff (my Get Depth (l_2), \\ mil, & if my kiff (my Get Depth (l_2), \\ my Get Depth (l_3)) = 0 \end{cases}$$
my Ballauced  $(l_2)$  and my Ballauced  $(l_3)$ , otherwise