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

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

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

my Ballanced 
$$(l_1...l_m) = \begin{cases} tule, & if m = 0 \\ mil, & if my Kiff (my Get Lepth  $(l_2), \\ my Ballanced (l_2) & and my Ballanced (l_3), \\ otherwise \end{cases}$$$