Emily Barnes 1913/19
 Homework 3
GART modeling for regression
old tree Toll his ITall : M terminal moles brokely
I I'm dente num of observations in build &
2. Om (Tolk) deso to val of imprihy hutors at brilet in 3. Rm denote the region in the fecto space corresponding to brilet
corresponding to built
N= overlit of observations  Qm (Tall) = Nm E (Vi-Ym)  Zm (Tall) = Nm ix.ERm
În= 1/2 Eixekn Y: = men response in budet m
total importly cost of the tree Told:
Cimp (Tald) = ENDQm(Tald)
Gonsider split at final buleet M Grew tree Tree   Tree = M+1
Nom devoles new of observations in bidet on On (Tree) - impority function at bucket on Em devoles region in the feature space Corresponding to
Total imprity cost of tree Tree Cimp (Tree) = E Nm Qm (Tree)





