-3WAFE Date PRANAY JAGADEFSH 1BM18CS071 BATCH-4 PROGRAM 7 WRITE - UP 5Bdan BTreeNode I int \* Keys int t BIGGENEDE XXC int r bool leaf fruleta: BTrue Node (int\_t, bool-leaf): issid insert Nonfull ( int K) word spletchild (int i, BTree Wode try) noid thanerse () BThee Node + rearch (int K) feriend class BTree Chan BTree BTree Node + nost Juldie: BTree (int -t) { root < NULL noid traversel, { if (noot | A) NULL)

proot -> traverse () BTree Node \* search (int K) E seturn (root () NULL) ? NULL: root ) search (x) noid inert (int K) BTree Node: BThee Node (int t1, bool leaf1) leaf <- leaf 1

Keys <- new int [2\*t -1] c = new BTheeNode \* [2\*t] noid BTace Node: traverse () E inti for (i < 0; (n; ++) { if ( leaf <> false) ((i) -> traverse () Reys [i] if (leaf =) of alse) C[o] -) tramere () noid BTrue : insert (int K) if (hoot (-) NUZL) i nest < new 13 Tree Nade (t, three) nost 7 Keys [0] K root -) n ( ) if (root ) n (2\*t-1) BTree Node 45 E new BTree Node (t, Palie) s → C(o) ← soot S -) split Child ( o, root ) int 1 < 0 if (S -> Keyx Co) CK) 1++ s -> ((i) -> invert Nonfull (K) heat <-s else host ) insert NonFull (K)



