01 1801042669 AVL VBuglizations Bugne Erin Yilmus AVL insut 20,30,8,47 inst 30 (47) RK 43 incot 18, 26,69 18 left mux goes to tex 47 Rebutance Lebulance Delete 30 Delete 8,47 39 Delete 33 Pelete Pesh Which 12 26

111 Q1 180104,26691 Rel Bluck Tree \$130a/Cutting Bogra Eran Yilmaz · + Black 0 -> Red RBT insert 20,30,8 Presect 47 uncle of mode was pert Pushed bluckness Insert 39 RR Bolonced Pelete 20 Tacert 18, 26,69 Potation 43 Renede 30,8 Kest Rebutance Pelete

2-3 Trec years 50,30 insint 8 SHIT 8 20 30 20 30 30 Cosect 47 Posert 39 Sp/20 33 20 130 4A 30 30 47 insert 18,26,89 Delete 20 Delete 30 39 20 30 18 30 8 2639 4769 T47 69) 26 30 Merge Nodes Delett 47 Pelete 3 (18 30 69/ (1876) 47 18 261 26 47 69 Merse Pelete 18 Pelete 39 (26 69 26 Jest mile 26 ->
69 Compes to rook 76 Delete Rest

Stip List 1801042662 assume every 4th coinflip is five Bugny Ern Silmy 1000 1000 (000 Posent 70 (1) Prant 30, 8 (0,0) Prant 47 (1) B - 20 --8-20-20-0 1-8-20-30-40 10sert 30(0) (nout 18 (0) -8-20-30-30-47 8-18-20-30-39-47 Pasent 26 (1) Part 2 Hay 20 - 76 - 47 --8 +8 20 -26-30-30-47 insert 69 (0) 20-26____ 1-8-18-20-26-30-39-47-69+ Remove 20,30,8,47,30,18,2669 Remove from main lane and express lune pa exptsin

1801042660, B-Tree with Order 4 Bugna Eran Yilmuz Insort 39, 18 Asert 20,30,8,47 Slit 81 30 47 (20 30 8 42) SPLIT insint 26 [26 30 35 47) (8 18) 26 (35 47) Delet 20 20 18) 26 39 47 69) (818) 26 (39 40 60) Left max moves UP (18) Delete 30 30 139 47 69 39 47 69 Righ max moves up (33) Delote 8 and merge Pelete Rest (8 26)