1 234 5 6 7 8 9 10 11 12 13 14 15 1617 18 19 20 21 22 23 24 25 26 5 5 7 9 15 20 20 27 32 37 38 40 43515364647717777777760 848 6 91 95 farget: 80 first: 0 last: 26 one Third = (0 f (26-0)/3) = 8 two thirds = ( 8+ +2 . (26-0)/3) = 17 farget == arr conethird 80 \$ 27 farget == Carr [twoThirds] 80 \$ 64 four forget & am [one Third] 80 627 False farget > arr [twoThirds] 80 > 64 frue fernary search (arr, 2/3+1, last, tun 20 21 22 23 24 85 26 71 77 77 77 86 8486 9195 last=26 target=80 onethird=(18+(26-18)/3)=20 twoThirds = (18+2 . (26-18)13) = 23 Earget = = arr Conethird ] 77 \$ 81 Eurock == arr [two third] = 80 \$84 Euroset arr [one Third] 80 L farget > arr [two thirds] 80 > 84 else repur ternary Search farr, 13 2/3+1, turget) 77801 First=21 last = 22 farget = 80 ane Third (21+ (22-21) two Third = (2+2.(22-21)13) = 2) farget = = arr [one Third] = 77 farget = arr [one Third] = 77 farget = arr [one Third] 80 × 17 target > arr [ho] hird 90>77 frue folmary Search (arr, 3+1, last, targ first = 22 last = 22 farget = 80 one third (24 (22-24) /3) = 22 fwo Third = (22+2, (22-22)/3) = 22 forget = = arr [one Third ] = 82 returns one Third = 22

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 28 21 22 23 24 25 26 9 15 20 28 27 32 37 38 40 43515364647177777780 848 6 91 95 farget: 88 first: 0 last: 26 snethird= (0+(26-0)/3) =8 8+ +2 . (26-0)/3) = 17 farget == arr [one Third] 80 + 27 Farget == [arr [two Thirds] 80 \$ 64 Farget Zam [one Third] 80 227 Palse farget > arr[twothirds] 80 > 64 frue fernary search (arr, 2/3+1, last, tax 20 21 22 23 24 85 26 77 77177 868486 9195 target=80 one third=(18+(26-18)/3)=20 two Thirds = (18+2 0 (26-18)13) = 23 Earget = = arr [anothird] 77 780 Eurost == air [two Third] = 80 \$84 farget 2 arr [one Third] 802 farget > arr [two thirds] 80 > 84 else return ternary Search farr, 13 2/3-1, target) 12/1221 7780 3vd First=21 last=22 funget=80 ine Third (21+ (22-21) 13)=21 1 two Third = (21+2.(22-21)13) = 21 farget = = arr [one Third] = 77 =: forget = arr [twothirds] 80 + 77 forget Larr [inethird] 80 × 17 target > arr [ two paired ] 80 > 77 frue falmary Search (arr, 3+1) last, targ. \_\_ -0 80 first = 22 last = 22 farget = 80 one third (24 (22-24)/3) = 22 poor Third = (22+2. (22-22)/3) = 22 forget = = arr [one Third ] = 82 returns oneThird = 22