1=0 right i 12 13 x x y y x 1 2 > 2×4 (x) (i++) | count = count + 1 = 0 + 0 = 0 6 > 2×4 & (i++) | count = count + j = 0 + 0 = 0 12>2×4 (j++) 12>2×5 (j++) Count = count +j=0+2=2 12>2×7 (i++) count = count +j=0+2=2 13 >2×7 \((i+) | count = count + j = 2 + 2 = 4 21 > 2×7 () (j++) 21 > 2×9 Ø (j++) 21 > 2×10 Ø (j++) 21 > 2×11 \ (i+) | count = count + j = 4+5 = 9 int j=0, count=0; for (int i=0; i< left. length; i++) } while (j < right length kk left[i] > 2 * right[i]){ count = count + 1; Now, the above question converted in terms of P, 9, 7 like merge (during merge sont) 4579 i= P (slant) 1=2+1 (start)

i <= ?; i++) § while (j <= 9 22 right[i] > 2 * right[i]) { count = count + (j - (9+1)); 25 [40, 25, 19, 12, 9, 6,2] [2,6,9,12] [19,25,40] - (12, 9 [25, 19] [12] [6] [19] [25] (2) 12 12>2×9 8 40 > 2×19 0 2 Merige 40 > 2×25 8 1 Herge 1 Merge 6 0 (3) 0 3 Merge 0 Next page

2 6 9 12 i i i i i y y y x 1 count = 4 + B + 9 + 4 = -15" 19>2×20 19 3 2 2 6 6 19 > 2×9 19 > 2×12 (8) 25 > 2×12 (V) Merge Sort works here because we already know no. of pains possible in the with [19, 25, to] ray, x. And we also know no. of pains with [2,6,9,12] say y. Now, we want mo, of pains with [19; 25, 40] [2,6,9,12] say 7 So, count = (2+4)+ Z

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