Copyrhupathe epes caubate. Counting sort.

1. Сортиране срез сливане- сортиране на 2 фртирани.

Toulep:

arr 1: χ 3 7 10 12 χ $\frac{11}{12} \rightarrow 0$ arr 2: 1 4 6 11 13 χ $\frac{1}{12} \rightarrow 0$

size arr3 -> size arr1 + size arr2, arr3 -> copringar.

arr3 (0) = min (ar 160), arr2(0) = 1

arr 1: $2371012711 \rightarrow 0$ arr 2: $4461113712 \rightarrow 1$

or 3: 7

arr3: 12

arc1] = min(arc0), arcc1) = min(arcci2) = 2 arc1: \$2 \$ \$ 10 12 ? i1 → 1 arc2: \$2 \$6 11 13 = i2 → 1

arr 1: $\chi(3)$ 7 10 12 $\chi(3)$ 3 3 3 2 3 11 \rightarrow 2 arr 3: $\chi(3)$ 6 11 13 $\chi(3)$ 3 $\chi(3)$ 4 $\chi(3)$

arr 1: % % 7 10 12 7 $i\Lambda \rightarrow 2$ arr 2: % % 6 11 13 J $i\lambda \rightarrow 2$ arr 3: Λ 2 3 J

arr3: 1 23 4 6 7 10 11 1213

2. Counting sort - caus c nonos/cuternu ruchs arr: 3 4 1 1 2 3 6 5 6 6 Occur: KOVRO NGLA CO G NOSPANO LACVOLO 1, P arc occur: 2 1 2 1 1 3 1 2 3 4 5 B -> 0 cur [aci]] ++ Cheg niobor ce orineccibar 2 equatricu, 1 gborila, 2 nipoieu.
Output: 1 1 2 3 3 4 5 6 6 6 Cmatures Counting Sort Ttpodren: cmygenm - ovenka 32 cenecrop. Student 1-3 Student 6-3 Student 2 - Y Student 7 - 6 Student 3 - 1 Student 3 - 5 9 Obermu. Student 4 - 1 St door 9 6 Student y - 1 Student 9-6 Student 5-2 Student 10-6 · 3a ga Hampakun cmasunen Counting sort use usnowsbane macub où npetricu. arr: 5 7 3 2 6 Mpuller 3a: preff Ci) - ye cogopolui yuama Ha ruchama go i-1010. preff[0] = 5 = arr [0] => preff [i] = preff [i-1] + arr [i], preff[1] = 5+7 = 12 preff[2] = 5+7+3=15 pref (3) = 5+7+3+6=21 3a: arr: 3 y 1 1 2 3 6 5 6 6 (oyenkure 42 czygennowe)

Tipasum pacub où npequetu na occur, voiro ce razba sum $\frac{2}{1}$ $\frac{3}{2}$ $\frac{5}{3}$ $\frac{6}{5}$ $\frac{7}{6}$

Sum [i] - novazba koù e no cheg husiñ ungerc, na routo i use ce nostr. ar: 3411236566 sum [6]=10 arr Sorted: 7 2 3 7 5 6 7 8 9 10 2 = [3] muz arr: 3 y 1 1 2 3 6 5 6 X Sum [6] = 9) nocheon. no3., 43 Sum[6] = 8 2020 ca. 6-42 we - 1 2 3 4 5 6 7 8 9 10 ce nosbu. am: 3 y 1 L 2 3 6 5 XX Sum [5]=7 cursorted: - - - - 5 6 6 7 8 9 10 sum [5] = 6 (invalid) arr: 3411236×× 8= [2] muz ourcerted: - 1 2 3 4 5 6 7 8 9 10 Sum [6]=7 (invalid) on: 3 4 1 1 2 3 X X X X X sum [37=5 our Sorted: - 23456789h Sum [37=4 our: 3 4 112 X X X X X X 8um [2] =3 arrsorted: _ _ 2 _ 3 _ 5 6 6 6 1 2 3 4 5 6 7 8 9 10 Sum[2]=2 - 1 2 3 5 6 6 6 6 10 A U 7.11.

Накрая сортиранийе синдонти ще бъдат наредени Haruh: Student Y Student 5 Student 1 Student 3 Student 10 6 Student8 Student 7 Student9