

Mini Teste 3

2023/2024

Pergunta 1

Dado o array presente no Anexo 1, **ordena os dígitos** de cada elemento do array (colocando os dígitos por ordem crescente) e indica a **sequência mais frequente** do array resultante.

Notas: Um zero à esquerda não é representado e, por isso, na prática, os zeros podem ser ignorados. Em caso de empate em número de ocorrências, deve escolher o menor.

Por exemplo, para o array[5] = {132,1230,231,348,348}, originaria o array correspondente array_res[5] = {123,123,123,348,348}. O mais frequente seria o 123 e o menos frequente o 348.

Resposta: 256

Pergunta 2

Dado o array presente no Anexo 2, ordena os dígitos de cada elemento do array (colocando os dígitos por ordem crescente) e indica o **819º** elemento (**índice 818**) do array resultante.

Notas: Um zero à esquerda não é representado e, por isso, na prática, os zeros podem ser ignorados.

Por exemplo, para o array[4] = {132,456,261,4830}, originaria o array correspondente array_res[4] = {123,126,348,456}. O terceiro elemento é o **348**.

Resposta: 256

Anexo 1

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int sequencia[1629] = {819, 970, 471, 717, 204, 904, 142, 964, 561, 530,
502, 536, 247, 789, 783, 817, 724, 745, 911, 281, 919, 269, 234, 832,
944, 879, 744, 459, 221, 785, 790, 727, 434, 709, 361, 932, 488, 112,
183, 922, 841, 394, 182, 536, 946, 445, 550, 548, 628, 459, 397, 948,
273, 166, 501, 741, 265, 286, 523, 424, 896, 465, 868, 243, 945, 823,
372, 980, 527, 214, 499, 274, 775, 594, 981, 240, 241, 534, 703, 623,
650, 864, 834, 612, 713, 574, 188, 649, 512, 688, 887, 805, 571, 219,
945, 823, 991, 779, 483, 192, 553, 313, 963, 242, 509, 994, 882, 645,
850, 567, 417, 114, 204, 513, 601, 284, 354, 229, 642, 701, 111, 540,
626, 315, 537, 246, 449, 432, 805, 701, 687, 970, 310, 499, 867, 562,
231, 903, 609, 648, 596, 661, 106, 727, 472, 627, 751, 502, 162, 626,
337, 811, 608, 388, 247, 119, 940, 886, 958, 352, 699, 308, 492, 288,
526, 572, 687, 652, 459, 289, 364, 663, 103, 796, 350, 348, 810, 337,
763, 682, 443, 135, 541, 186, 231, 894, 692, 432, 994, 351, 676, 186,
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165, 190, 266, 151, 652, 827, 370, 462, 503, 475, 108, 324, 460, 818,
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622, 576, 553, 930, 632, 151, 374, 987, 858, 799, 883, 615, 616, 170,
629, 315, 251, 292, 908, 176, 678, 523, 900, 531, 991, 489, 728, 734,
910, 980, 966, 333, 416, 876, 717, 424, 715, 641, 967, 397, 491, 174,
998, 227, 643, 425, 707, 284, 318, 375, 960, 499, 308, 597, 298, 263,
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693, 385, 652, 401, 251, 858, 757, 451, 246, 543, 826, 639, 859, 597,
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709, 877, 856, 645, 851, 992, 830, 757, 509, 777, 252, 171, 168, 169,
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177, 407, 885, 642, 974, 151, 344, 300, 174}];

Anexo 2

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int sequencia[1513] = {637, 348, 210, 829, 670, 421, 769, 433, 658, 873,
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350, 295, 243, 438, 833, 261, 754, 729, 937, 585, 182, 315, 318, 425,
163, 993, 348, 582, 628, 834, 683, 229, 418, 661, 189, 324, 284, 370,
533, 501, 123, 610, 766, 404, 826, 914, 276, 526, 917, 541, 958, 762,
223, 779, 755, 708, 493, 386, 871, 971, 147, 956, 831, 250, 780, 611,
301, 364, 226, 519, 281, 915, 502, 168, 290, 392, 292, 791, 606, 136,
318, 881, 960, 104, 165, 510, 728, 503, 886, 836, 897, 568, 204, 787,
336, 748, 242, 603, 217, 785, 971, 996, 163, 834, 672, 927, 259, 376,
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752, 841, 580, 453, 181, 139, 330, 243, 871, 490, 612, 573, 545, 347,
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753, 181, 648, 117, 977, 616, 970, 694, 243, 268, 139, 631, 734, 342,
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178, 363, 427, 518, 583, 976, 769, 247, 525, 486, 563, 746, 379, 244,
395, 886, 972, 681, 805, 785, 354, 973, 195, 942, 760, 850, 674, 687,
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909, 605, 570, 440, 455, 961, 174, 895, 202, 501, 407, 145, 263, 793,
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455, 374, 918, 856, 160, 954, 113, 252, 295, 402, 164, 540, 513, 758,
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209, 463, 357, 941, 771, 414, 138, 654, 462, 565, 112, 946, 904, 470,
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999, 822, 720, 598, 909, 709, 829, 464, 442, 128, 114, 846, 975, 170,
643, 847, 168, 204, 421, 233, 672, 470, 998, 165, 771, 958, 481, 780,
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766, 742, 527, 310, 901}];