Proyecto #1 Heap Sort y Radix Sort

Análisis y diseño de algoritmos

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**Manual de usuario para manejo de algoritmos de ordenamiento: Heap Sort y Radix Sort**

Paso 0 (Antes de empezar):

Para el seguimiento de los pasos y que tome efecto el motivo de este manual, es necesario constar de un compilador de C++, preferentemente la última versión, y un editor de texto disponible para editar el código y ejecutar las funciones que se deseen.

Paso 1:

Crear un archivo con terminación *.cpp* y nombrarlo *main*, es decir, crear un archivo *main.cpp*

**Nota: Es muy importante que este archivo esté en la misma carpeta o directorio que el archivo Arreglo.h (programa con los códigos de ordenamiento**)

Paso 2:

Antes de correr el código se debe de crear un archivo de texto llamado “archivo”, justo en la misma carpeta donde se encuentra el código *main.cpp*, es forzoso que tenga ese nombre en específico, ya que luego se mandará llamar desde el programa.

Paso 3:

Llenar ese archivo de texto (archivo.txt) con números aleatorios, es importante que la primer línea sea el número de elementos después de ese. Ejemplo:

![Imagen que contiene dibujo

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEVybmVzdG8gQ2FzY28gVmVsYXpxdWV6AAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMzNQAAkpIAAgAAAAMzNQAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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EiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APoKo5OlSVHJ0pDM67+4al8IR7vDaHe4/wBJueAf+niSorv7hqx4O/5FpP8Ar5uv/SiSgBfCeoT694L0TV7w7LjUNPgupViyEVnjViFBycZPGSa1/K/6aSfnXgGoweL9O+FPhXWh4rmtNMWDSIbPTtPTySVZIg5lk+82csNoOMYPqK9u8S22t3mhTQeGNQt9N1GQqEuriDzVjXcNxC9C23OM8Z6+tC1jf+un+YvtW/rr/kaPlf8ATST86PK/6aSfnXnXwpfVIdf8Z6ZrGt32stYajHFHPeSZIzEGO1RwgyT8o4r0mn0T9PxF3I/K/wCmkn50eV/00k/OpKKBkflf9NJPzo8r/ppJ+dSUUAR+V/00k/Ojyv8AppJ+dSUUAR+V/wBNJPzoqSigDD/tWH/nnL+Q/wAajfVYcf6uX8h/jUf2YVG9uMUAVrvU4Sh+ST8h/jWn4KcSeFonGQDc3J5/6+JKxbq3Gw1seCBt8KRD0ubn/wBKJKAPGde8SXuofCDwv4b03wd4pvprW00m4N5a6W0ltIqRxSNscHJOOOnUV63D4787wZP4h/4RXxNH5Mvl/wBmSadi9fkDcsW7lfmznPQH0rU8J6VPoPgvRNIvGje40/T4LWVoiSjMkaqSpIBxkcZArXpLRW/rp/kD1d/66/5ni/w98V3sHj/xC134J8XWsPiLUo5bee40lkjgURhCZWJwoyO2eK9ooop9EuwurYUUUUDCiiigAooooAKKKKAMOon6VLUT9KAM+6+4a0vBX/IrRf8AXzc/+lElZt19w1peCv8AkVov+vm5/wDSiSgDkfHnxC8WeHL5/wCy/DMMWl297b20mpahNkXBlZRiKNCCcbvvE4yCMZGK6vxz4rHg7wvJqSWjX108sdtZ2isFM88jbUXJ6cnJ9ga4n44+JdCTwsmltrWnLqEOqWbyWhu081FEqsSUzkDHOcdOaX4w6quq/D2w8ReENRsb+PRtYgu3uoHFzFEE3KWbyychd4JA5xUr4fnb5e7/AJsf2vl+OpatPHHjHw74s0fSviNZaElvrshgs5tImkLQS4yEkWTk5zjcvANS6j4w8aa34m1bTfh5p2im00SQQ3d7rEsgWabbuaOMR9CoIyW4ya4KbSPDmp+KPCqaR4iXxl4svNWt76+1QTCX7NbQne4CrlYUyQAnByfbFNis7QeOPF3hvx54vi8P6F/akupf2d5wtX1NJsMCZSfmjwMbEOSc5xgVVuj8/wALf5v7vUWm68v1/wAl9/mewfD7xnF468KJqiwC2uI5XtruBZA6xzIcMFYcMvQgjsa6evNvgjZQQ+FtW1DTrP7FpeqaxPdadD5ZTFvhUQ4IGAQmR7GvSaqXT0X5CX+f5hRRRUjCiiigAooooAw6ifpUtRP0oAz7r7hrS8Ff8itF/wBfNz/6USVm3X3DWl4K/wCRWi/6+bn/ANKJKAJNQ8E+FdWvpL3VPDOj3t1LjzJ7mwikd8DAyzKSeABV7TtF0vR7BrLSNNs7C0Ylmt7WBYoyT1O1QBzXL+J/idY+GdWlsD4f8R6qbdA9zPpemmaG3BG753JA+7zxniun0XWbHxBotrq2kTi4sruMSQygEbgfY8g9iD0NC1WgPfUj0vw5omhySvomjafpzzf61rS1SIyfXaBn8aNV8O6JrrxNrej6fqLQ/wCqN3apKY/puBx+FaVFACIixoqRqFVRhVUYAHpS0UUAFFFFABRRRQAUUUUAYdRP0qWon6UAZ919w1peCv8AkVov+vm5/wDSiSs26+4a0vBX/IrRf9fNz/6USUAUPHMfj6WFY/AbaEsTQuLg6kZRMG7eVtBTOM/eGM47VD8I7mym+GWmQadZ3Fkll5lpLBcSrK6SxuVky64DfNk5AA56Cma18Mo9c1+41Kfxh4uto7hgW0+01YxWwAAG0IFyAcc4PUmup0XRNO8O6Nb6VotqlpZWy7Yokycc5JJPJJJJJPJJyaI6J36/1+v9dSWr0L1FFFABRRRQAUUUUAFFFFABRRRQBh1E/SpaifpQBn3X3DWl4K/5FaL/AK+bn/0okrNuvuGtLwV/yK0X/Xzc/wDpRJQBqahq2naTHG+q6ha2KSuI42uZljDseijcRk+1W68b+MngnRLOxfxQIJJ9XutVsU+0TytJ5Keag2RgnCA4zx6ntxXslC1jfz/RP9QekreX+f8AkFFFFABRRRQAUUUUAFFFFABRRRQBh1E/SpaifpQBn3X3DWl4K/5FaL/r5uf/AEokrNuvuGtLwV/yK0X/AF83P/pRJQBxvxJ8L/EfxdJLpukS+FotES5hubdrprhbndGVbD7QVxuB6Dp713Phf/hJf7H/AOK0/sr+0vMb/kE+Z5OzjH+s+bd1z26VsUULRWB6u4UUUUAFFFFABRRRQAUUUUAFFFFAGHUT9KlqJ+lAGfdfcNaXgr/kVov+vm5/9KJKzbr7hrS8Ff8AIrRf9fNz/wClElAHmHi3Vorr4ka1p3jnxtr3g6ws4o5dIXTrj7JHdxbAZG8zafMYNxt6+gPNaEXiDxpB+z3Nqsf2+fVVc/Z7l7ZTdNZ+dgTGPpv8rnn0yfWsvxDC9p8QvEE3j/wDrfi+zuSq6PNYWv2yG3g24KBMjymzyW+8T9MmWDQvHtt8AbixtbW+jvWvjJBp32vF1Hp+8HyBLyQ23I9QOOvy1Kvyfd6b9fPv/wBveRT+Nf106eXa/l5kXhbUYU8eeHo/AXjzxB4uhvt8urQajci4ht7fYcMcqDC+/GF6np06+5V4Po9iNR8eeG7j4f8Aw+1vweLGb/ia3l/afY45rbHMZXcfOJPc8g4PuPeK0fw/f/Xp+tzP7X3f16/pYKKKKkoKKKKACiiigAooooAw6ifpUtRP0oAz7r7hrS8Ff8itF/183P8A6USVm3X3DWl4K/5FaL/r5uf/AEokoA36K821XxD8RNR8fa1ovgqPwwtppSW5d9WW4EjGVC3BjOD0PYdutdxoP9tf2Hb/APCT/YP7UwfP/s7f5GcnG3f83THXvmhaq4PR2NGiiigAooooAKKKKACiiigAooooAw6ifpUtRP0oAz7r7hrS8Ff8itF/183P/pRJWbdfcNaXgr/kVov+vm5/9KJKAOF8baJ4NTxbqWq3vxO1Dwvqsscf2i0staig+4nyFocbm4OcHrnjrXS/CXWNZ174cWN/4ikae4keQRXLxeU1zCHIjkK8Y3Lg+4we9bl34R8N3+qHU77w9pVzfkgm7mso3lJAwDvK54AA69q2OlEdFb+v6/r0JasKKKKACiiigAooooAKKKKACiiigDDqJ+lS1E/SgDPuvuGtLwV/yK0X/Xzc/wDpRJWbdfcNaXgr/kVov+vm5/8ASiSgDD1/4q2mh+JrzQ4fC3ifWbmzWNp5NJ08XEab13Lk7wRx6jsa1Lvx1a2Hw9k8XahpOrWdvEm97G4thHdr8+wAxlsAk4PXoa5zVtA+Iml+Pda13wX/AMI1NZ6mlvvh1N5xLmJCuF2AKM5PUnt0oa+v/jB8Fb1NPtYdM1O5Y27RXUhMUcsUo3fOoJK/L1A9vep+z5j+0uxq+HfiV/wkWtw6d/whni7S/NDH7VqeleTAmAT8z7jjOMDjrUOv/FW00PxNeaHD4W8T6zc2axtPJpOni4jTeu5cneCOPUdjWfY+L/HHh7xdo2i/EDTtDmg1qR4LW70SSX91Iq7sOkvJBx1HSl1bQPiJpfj3Wtd8F/8ACNTWeppb74dTecS5iQrhdgCjOT1J7dKp9GhLrc6O78dWth8PZPF2oaTq1nbxJvexuLYR3a/PsAMZbAJOD16GqPh34lf8JFrcOnf8IZ4u0vzQx+1anpXkwJgE/M+44zjA461lNfX/AMYPgrepp9rDpmp3LG3aK6kJijlilG751BJX5eoHt70lj4v8ceHvF2jaL8QNO0OaDWpHgtbvRJJf3Uiruw6S8kHHUdKa+L12+ewvs/10NDX/AIq2mh+JrzQ4fC3ifWbmzWNp5NJ08XEab13Lk7wRx6jsa6rQdX/t7Q7fUv7Pv9N88E/ZdRg8mePBI+ZMnHTPXoRXDatoHxE0vx7rWu+C/wDhGprPU0t98OpvOJcxIVwuwBRnJ6k9uldL4A8XHxt4Rh1aWxawn82SCe3L7wkkbFW2t3GR1pR1XmOWjOlooooAKKKKAMOon6VLUT9KAM+6+4a0vBX/ACK0X/Xzc/8ApRJWbdfcNaXgr/kVov8Ar5uf/SiSgDJ8Q/DOHxJrk+oXXivxVbQzhRJp1nqhitSAoUjYFyAcZPPJJrVk8GadH4JHhfRJrzQbFEVIpdKnMU0QDBiVc5OSc5JyTk561c1PxPoGiXMdvrOuabp88ozHFd3ccTOOnAYgmtMMGUMpBBGQR3o6W6D1vc43w38MNH8PazHrFxqGr69qkKMkF7rV6bmSBW6hOAFz64z155NN8Q/DOHxJrk+oXXivxVbQzhRJp1nqhitSAoUjYFyAcZPPJJrtaKNxLQ5+TwZp0fgkeF9EmvNBsURUil0qcxTRAMGJVzk5JzknJOTnrWZ4b+GGj+HtZj1i41DV9e1SFGSC91q9NzJArdQnAC59cZ688muzop3d7h0scV4h+GcPiTXJ9QuvFfiq2hnCiTTrPVDFakBQpGwLkA4yeeSTXTaJomneHNFttJ0S0S0sbVdkUKZwo6nk8kkkkk8knJq/RSWisgeruwooooAKKKKAMOon6VLUT9KAM+6+4a0vBX/IrRf9fNz/AOlElZt19w1peCv+RWi/6+bn/wBKJKAOP+JieF9JuJ7vUvhzeeJ77ULdi95baWLlYdi7QHlOTFx3UdietbvwkWCP4T6BFaanDqkcdts+0wlipOT8o3AMNv3cEA8dB0qLWk+Kcmv3CeH5fCMOjswEMl2ly9yq4GSQpCE5zjnGMVs+C/C6eD/DMOlC7e9m8ySe4uXQJ50sjF3YKOFGScDsPXrRHSL87fr/AJ/10Jbr+v62N6iiigAooooAKKKKACiiigAooooAw6ifpUtRP0oAz7r7hrS8Ff8AIrRf9fNz/wClElZt19w1peCv+RWi/wCvm5/9KJKAN+iuE8XeBr3Wru91S58e6/o1tDFvt4NOuFtobcBfmMhAzIMjPJGBkVc+FOt6r4i+GGjapr53308Tb5NgXzQHZVfA4+ZQDx60LVPy/W/+QPSx19FFFABRRRQAUUUUAFFFFABRRRQBh1E/SpaifpQBn3X3DWl4K/5FaL/r5uf/AEokrNuvuGtLwV/yK0X/AF83P/pRJQB5p8Q/E+rat4yk8Pan4R8WT+FLNgZ/7I0xpTqj8HYXyoWIdwCS2OcV6b4Q12LX9CWe30LVNCigfyEs9Us/s0gVQMFUBPy4OB9DW7RRHSNgesrhRRRQAUUUUAFFFFABRRRQAUUUUAYdRP0qWon6UAZ919w1peCv+RWi/wCvm5/9KJKzbr7hrS8Ff8itF/183P8A6USUAY/ie9+JY1S4HhDSvDy6fbKCsmp3ErSXZ25IRYwAmDlfmPJ56UzS/FfiPxt8MtO1/wAEW2l2mpXbfvINXaRoYwrMjgGP5idy8H0rI8e/EezfXJPBOja/p+kXrLjUtVvblIlsYyORHuI3zEHgD7ucn27HwcPDdh4PtrTwnqFnd6Tp8fkie3uUlUFRlizqcbudx+tJWcG+n9X+Q38SXX+vxOH/AOEo+KOl+OPD+h67H4QnGqzt5kemrdGWOBBmSQlyFUAcAnOSQMHmtnWpPi1Fqd5Jo7eCE0tHZoGvjdiURjoX2/LnHXHFQ/DYHxVrmsfEK6UlNQY2OkKwx5dlExG4Z6eY+WP0FS/FPUJ76303wPpUzR3/AImmMEsifegs1GZ5P++flGeu4+lNp2S6v9e/ot+2oK132/y3/rroVfC3iT4heLfhomsadD4bj1We8cW7XCXCWstspK+YBkvliCRnHGOBVH/hKPijpfjjw/oeux+EJxqs7eZHpq3RljgQZkkJchVAHAJzkkDB5r0+0tbTSNKhtbZEtrOzhEca9FjjUYH4ACuD+GwPirXNY+IV0pKagxsdIVhjy7KJiNwz08x8sfoKrTn02X/DL7/8ydeTXf8Ar8v8j0WiiipGFFFFABRRRQBh1E/SpaifpQBn3X3DWl4K/wCRWi/6+bn/ANKJKzbr7hrS8Ff8itF/183P/pRJQA698D+E9TvZbzUvC+jXd1Md0k8+nxSO59SxXJq5Z+HtF07S5tM0/SLC1sJ93m2kFsiRSbhhtyAYORwcjkVS8ZeMtL8DeH31fWfOeMOsccFugeWZz/CikjJwCevQGr2gazb+IvD1hrNkksdvfQJPEswAcKwyAQCRn6E0LVOwPdXLdra29jaRWtlBFbW8KhIoYUCIijoAo4A9hUZ0yxOqDUzZW5v1i8kXZiXzRHnOzfjO3POM4zXM6X8S9D1n4hXnhDT0u5b2zjd5LkRr9nJQqHRW3ZLAsAeMZB5rR8ZeMtL8DeH31fWfOeMOsccFugeWZz/CikjJwCevQGhvRSfUaWvKbVxbw3dtLbXcMc8EyFJIpFDK6kYKkHggjtSWtrb2NpFa2UEVtbwqEihhQIiKOgCjgD2FVNA1m38ReHrDWbJJY7e+gSeJZgA4VhkAgEjP0JrQptNOzJTurhRRRSGFFFFABRRRQBh1E/SpaifpQBn3X3DWl4K/5FaL/r5uf/SiSs26+4a0vBX/ACK0X/Xzc/8ApRJQB4t4i+J3g3Wtf8S3fiPV/JuNNt7rTNE05raZtrlGSSdiqFdzn5Rz8qjnrVuz+L2jaT8B9EtdH1YQX/lwaTPdtbyldPcx5eQjblyqgkbc5OK9z1Owi1XSbvT7hnWK7geB2QgMFZSpIznnBqHQNGt/Dvh6w0ayeWS3sYEgiaYguVUYBJAAz9AKSXutPy+dr3++/wCPkNv3k15/pb8v89zwTw748+HOjfFrQh4f1c/2Rb6I+nrM1rPue4ecN82UyWYkktjGT1p/iL4neDda1/xLd+I9X8m4023utM0TTmtpm2uUZJJ2KoV3OflHPyqOete3SeF7KXxvB4paW4F9DYtYrGGXyjGzhySMZ3ZHrj2rQ1Owi1XSbvT7hnWK7geB2QgMFZSpIznnBpTTlC3r+Lf9fPyHHSX3fgl/Xy8zifgr4m0jX/hnpNrpN39om0u0htrxfKdfKkCD5csAD9RkV6BWfoGjW/h3w9YaNZPLJb2MCQRNMQXKqMAkgAZ+gFaFazalJtGcE1FJhRRRUFBRRRQAUUUUAYdRP0qWon6UAZ919w1peCv+RWi/6+bn/wBKJKzbr7hrS8Ff8itF/wBfNz/6USUAXtV8RaJoTRLresWGnGY4jF5dJFv+m4jNX0dZI1eNldGAKspyCD3Br59XV/DmoeMvFsmseHF8Y+KrjVZbCw0kwCbyLaHCKxZsrChJJL8HJ+tdv8CjqNr4Q1TRdW2LJo2rz2cccchdYkAV/LVjyQpcgZoj7yv5X/L/ADQS91287fn/AJHptFFFABRRRQAUUUUAFFFFABRRRQBh1E/SiigDPuvuGtLwV/yK0X/Xzc/+lElFFAHjvxN13Vfg342n1Lwo1jIniuQSXEN5alzBKOC6urKSDnO05AOfWvWvh94aTwx4RhtzdPe3V47Xt5dyIFaeaX5mbA4HoB6AUUUqf8N+tvl2FL+Jb5/M6eiiimMKKKKACiiigAooooAKKKKAP//Z)

Nota: Se tiene que guardar el archivo para que los cambios se efectúen

El valor total de números contando desde el 100 al 0 es 11, entonces esa suma se pone al principio

Paso 4:

Copiar exactamente igual el siguiente código en su archivo *main.cpp*:

![Una captura de pantalla de un celular

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEVybmVzdG8gQ2FzY28gVmVsYXpxdWV6AAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAM4MAAAkpIAAgAAAAM4MAAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFADIv9Sn+6KfTIv9Sn+6KfQAVoRyW93LGWimMwAGEI2nHf2rPqf7bceSIvNIQDAAAHFCEF4we9lK8gsagoooAKKKKBhRRRQAV2DazcaN4P0aSxWJbiQTKJ2QMyDfyBngZrj6sTX9zPZwWksm6C33eUu0Dbk5PPU/jWsKjhFpbs0pz5G35HV6Hd22u+JLrUZ7eO3lhs/MH7syjzBgGTYMZ65xSa9qmn32hzR3GspqV8jq1u/wBhaFk5+Zc4xjH8q5S0vLiwukuLOZoZk+66mr+oeJ9X1W0Ntf3fmwkhtvlIvI9wAa1ddez5ev8Awb33/Q3jXXI1Ld3+enqv1OiPijW/+ELS/S7JnF6YmkEKHCbMgYxjr3rM0q4uNRsPEU87GWeW2V3IUDPzDJwKy9M1/U9HV1067aFXOWXarAn1wQaSHXtSt9Uk1GG6ZLqXO+QKvzZ9RjH6USrKUk23tb8Ld/mJV/hbb0/4JoTwSwfD6AzRsgk1Aum4Y3L5eM/pW3rvie60bXY4bWGHyfLjacbBunG0cFiDgY44rlNQ13UtVi8vULppk3+YAVAw2McYHHHbpVe9vrnUbjz7yTzJNoXdtA4AwOlEq9r8mm34Kwe2UU1C+y/M6fTNXNj4a1S/sraJHa9Uwq43CEkHke4FU/Et1JqOk6NqF0FN1NHKssiqBv2tgZxWGt7cJYPZLJi3kcSMm0csOhz1omvbie1t7aWTdFbhhEu0DbuOTz359amVXmhy+n4ClXvDl8vxvf8AIgruLdNL/wCEB0u61VbieG2llBtrfgPIWON7dhj8ea4etLSvEGqaIHGmXbQLJyy7QwJ9cEEZ964a1NziuXozOjNQldm342nE9hohe1Wzk+zufs6/8s0LDYPyFZWu6jqWoWumjUrMW0cFuI7ZhAY/NTjnJ69unFU5LuTVtWWbVrxgZXUS3DLu2Lnk7R6DsK3PFuu2d9p+maVp00t3Dp8ZU3Uq7TKSAOB1AAHf/wCuXSh7Omo+f+f+Yqs1Uqc3l/kcvRRRWpmFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAyL/Up/uin0yL/Up/uip4YjNJsVlXjJLHAFAEdFT3VuLZ0AcOGUMCBipEsk2p51wsUjjKoVJ/M9qBFSinSxtFK0b8MpwabQMKKKKACiuk8IW2j6pd/2RqdjI9xdFhDeRzEGL5cgbeh6Hk1zjLtcr6HFACUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAMi/1Kf7oqVEaRtsalm9FGaii/1Kf7oqVHaNt0bFW9VOKALl/DIFhYxttWJQTtPBq1JnzI5LW38x5FGJW5C/4VltcTOpV5pGU9QWJpFmkRSqSOqnqAxAp3ES37h76QqcjOM+vFV6KKQBRRRQM2/BscsvjHTVgl8p/OzvxngAkjHuMj8ar+ILzT77VpJdK0/wCwQ8gx+YX3HJ+b/Z7cDgYq74X1bSNDkbULuC7n1GEn7MqFRFyuMt3zyawGJZix6k5ofRAuolFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFADIv9Sn+6KfTIv9Sn+6KnhRZJMSSCNcZLEZoAjoqxeQRwPH5RZldA2WqRLWFrWR/OLyKm7ao4H1osIp0UUUDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAGRf6lP90VNFC88gSJdzHtnFQxf6lP8AdFPoA0dQtZhHE5T5Y4grHI4NLZ2c/wBlmOziWMbORzWbRTvqIdJG0UhSQYZeozTaKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBkX+pT/dFPoooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD/9k=)

Nota: Se tiene que guardar el archivo para que los cambios se efectúen

Nota: Cerciorarse de que lo que se escribió esté dentro de las llaves { }

Línea 1: es para incluir el archivo donde están los programas de ordenamiento y el resto es para ejecutar todas sus funcionalidades desde *main.cpp*, es decir, sólo se manda llamar las rutinas que se quieren.

Línea 4: Es para igual referenciar al código “Arreglo.h”, es muy importante.

Línea 5: Hace que el archivo de texto se lea y se puedan operar los números con los que se le dieron de entrada.

Líneas 6 y 7: Son para ordenar los números de entrada, pero tienen las diagonales para que no se ejecuten, a esto se le llama comentario y la computadora no lo ejecuta, sólo lo pasa.

Línea 8: Imprimir los números que se dieron de entrada.

Línea 9: Terminar el programa.

Paso 5:

Como el código del paso anterior es solamente una prueba de que todo esté en orden, ahora se debe correr *main.cpp.*

Dependiendo de dónde se esté ejecutando el programa, surgirá una ventana emergente negra con números, naturalmente, los números que deben aparecer son los que están en el archivo de texto en “Archivo.txt” a excepción del primero del archivo, ya que ese corresponde al número de elementos que se tiene.

![Imagen que contiene dibujo

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEVybmVzdG8gQ2FzY28gVmVsYXpxdWV6AAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMzOQAAkpIAAgAAAAMzOQAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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EiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APBLLTL/AFJnXTrK4u2jXe4giZyq+pwOBUNvbzXVwkFrDJNNIcJHGpZmPoAOTXp3ws8Uanc3qaAZI4tOt7C5fyoowvmvtJ3ORyxGcfgPrVb4UafeT6b4lvNEkgh1aG3iht7idwqwLIx8x8nphV60+r9L/mLp87fl/mcFqGk6lpEix6rp91Yu4yq3MLRlh6gMBUg0HWDpn9ojSr42ON32r7M/lY9d+MfrXsdtbadrnhG40TUfE03iae01CzeW7cFo4TJMEKRyN8zZUtzkj0xV97q90j4iibxD4r+zQy3ItrHw9Ynzd8ROxA6fdQEYOTz6EdKLdP66f5/qPpc+faK1vFVpDYeL9XtLUBYIL2aOML0ChyAKyamLukxyVnYKKKKYgooooAKKKKAO48H+ONC8KW8bt4T+2akI5Ipb3+0nj8xXJ42bSo4IHHpmq1l41sNJ1+4uNG8PRW+kXluLe70qa6edJh1zvYZB9DjisGx8P6zqlu1xpmkX95Cpw0lvbPIoPpkAis9lKsVYEEHBBHSh73DodbrHjiCXSE0rwtosfh+y89biUR3DTSSyLypMjYOAeQPWtT/hZ1ibsaw3hGxbxIE/5CRnbZvxjzPJxt3d856157RQBJPPLc3Ek9w5kllcu7seWYnJJ/Go6KKACiiigAooooAKKKKAO/8ABOsK9nbW+p/EC98PRWku2CyghkKyKW3Ell+UfMT94H8qyPiOt5/wsDVJdQghgknkEqiB96MhUbWDYGcjBzgck8Cn6X4i8KWWlQRX3glL++jHzXb6nKiyNnIJjAxjoMe1Y+v67d+JNZl1K/8ALWSQBVjiXakaKMKqjsABRLVoI7GZRRRQAUUUUAFFFFABRRRQAUUUUAWrLTL/AFJnXTrK4u2jXe4giZyq+pwOBVWvUvhZ4o1O5vU0AyRxadb2Fy/lRRhfNfaTucjliM4/AfWvLaHpK39df8gWqv8A10CiiigAooooAKKKKACiiigAooooA7jwf440Lwpbxu3hP7ZqQjkilvf7SePzFcnjZtKjggcema5nXb3TL/UvO0TSP7ItdgH2b7S0/wA3dtzc8+lN0/QtX1dHfStKvb5UOGa2t3kCn32g4qBNPvJL/wCwpaTtd7tv2cREybvTbjOaHqwWiK1FXtR0XVdI2f2tpl5Y+Z9z7TbtHu+m4DNUaACiiigAooooAKKKKACiiigD2TQGM3w70JNW8SXfg2NZmjtnt5tov0LZLlVIK4Jxub5e/erkM2rH4uaul5avaQPpYhk1SO4QPb24A23Pm4Cktt54Hp/DXCWfjnSptCsdN8U+FotaOnoYradb2S3ZUznadoO6pl+J88mu3Vxe6Paz6XdWaWLaYHZFWBDlVDjkEc8+/Tphy1l9/wCQlt935m94xaZfhcw03X7jxZYy3ytc6hcyktaFchUCNll3Z6k49huryauv1jxpp83hyfRPDPh2LQ7S7kSS6P2p7h5SvKjc2MDPb/69chU9W/62K6IKKKKYgooooAKKKKACiiigDVs/C+v6jaJdafoepXVu+dk0FpI6Ng4OCBg8jFULuzubC6e2vreW2uIzh4pkKOvGeQeRXpWjazpd14H0LTU8f3fhm8s/OWaGCCcrIXlJUsyFV4Hfnr2rjPGOk6no3ii5tdbvDfXXyv8AajKZPOUqCrbjyeMdfSiWjsC1RhUUUUAFFFFABRRRQAUUUUAFFFFAHV6R4j8L6dpcMd74Lj1DUIgSbuXUZVVzkkExAbcAYGO+Kxtf1288Sa1NqeolPOlwAka7UjUDAVR2AFPs/C+v6jaJdafoepXVu+dk0FpI6Ng4OCBg8jFRxaBrM+pS6dDpN9JewruktktnMiDjkrjIHI/MUPVgtEZ1FaOoeH9Z0mFJdV0i+sY3bar3Ns8YY9cAsBk1aPgzxQFLHw3q4UDJJsJcY/75oAxKK0dP8Pa1q0DT6VpF/exK2xpLa2eRQ3XGVB55H50PoGsx6mmmyaTfJfSLuS1a2cSsOeQmMkcHt2NAGdRWpe+Gde021a51HRNRtLdSA0s9pIiDJwMkjFZdABRRRQAUUUUAeoaNrOl3XgfQtNTx/d+Gbyz85ZoYIJysheUlSzIVXgd+evamaSZPB/j3XbXxd4iltbi701ootXj82dmL7Cjgr82do9R0xmud0jxH4X07S4Y73wXHqGoRAk3cuoyqrnJIJiA24AwMd8UweLbTU/E11q/i/RU1kTxhEto7l7ZIcYC7SuTgAYx75pv4r+v4/iJbGr4u0y+n8Nw6xa+NLjxTpEdyInM7Sq0EpBwTHITjjv711mpzp4z8QXA8IfEy7jubpc2+lMlzBFwgBUOSBzgn7vevPtd8Yw6hpcej6No0GjaQswne2ilaR5nxjLyNycDp6VpRePNC0hvtPhXwZb6ZqQUrHdz30l15WRjcqsAA3vS6f15fIeuhe8K6rp1r4Hm0W98YXXhbUI9UeZmt4JpGdPLVdpMZHGQe/bpU1uJfCPxQ0fVPE/iJ9RsJ7Z5LfVi0kxaNo3VeOWBDHoM4zXLaJr3h2ys5Br/hX+2r15TJ9qbUpYeDjgqowecnPfNPvPGEGseI7W917RobrTLSHyINLt5mt440wcAMuSOTknvT1vf+trB0a/rc39e0281TwpfXuj/EG78T2dlta8tbjz4iqk8NskY7gD/KvOK67VfGtm2i3Gk+FvD8GhWl5t+1Mtw88swByF3tyFz2rkanqPoFFFFMQUUUUAaNj4f1nVLdrjTNIv7yFThpLe2eRQfTIBFZ7KVYqwIIOCCOld94J1hXs7a31P4gXvh6K0l2wWUEMhWRS24ksvyj5ifvA/lWR8R1vP8AhYGqS6hBDBJPIJVED70ZCo2sGwM5GDnA5J4FEtGC1Ry9FFFABRRRQAUUUUAFFFFABRRRQB1el+IvCllpUEV94JS/vox812+pyosjZyCYwMY6DHtWPr+u3fiTWZdSv/LWSQBVjiXakaKMKqjsABTLDQdX1WF5dL0q9vY4zh3trd5FU+hKg4qgylWKsCCDggjpQ9XqC20EooooAKKKKACiiigAooooAKKKKAO18E6r4svb6x03SNXubPT9PYzTMsnlwwRbtzvJjAI6/ez6Csnxxq1prvjfVdS01dtrcTlo8rjcAAN2PcjP41u6T490Ky8GxeH9Q8IfbYw/mXEkepvB9ofJwXCLk4B4BJAxXK67e6Zf6l52iaR/ZFrsA+zfaWn+bu25uefSiW/9f10/roR2/r+upm0UUUAFFFFABRRRQAUUUUAFFFFAGhYaDq+qwvLpelXt7HGcO9tbvIqn0JUHFNsNE1XVZJU0vTLy9eHHmLbW7yFPrtBx0NdP4J1XxZe31jpukavc2en6exmmZZPLhgi3bneTGAR1+9n0FVvE3i+5m8c6xqfha/vNPt7ybINtK0JlAGNxCkdTk8+tN7oS2Zk3PhXxDZIj3mhanbq7iNGls5FDMeAoyOSewqb/AIQrxV/0LOsf+AEv/wATXVeNta1bRvDuk+HLzVb251QFdRvpZrh3eCQj93ECTldo5OO5BqXwf4l1+x0XVPFer69qdxbWK/Z7O3nvJHS4unHAILYIUfMR9KXfy/r89B9vP+vy1OKtfCviG+g86y0LU7iLcV8yGzkdcg4IyB1BGKq6jpGpaRIkerafdWLyDci3MDRlh6gMBmtvwvqPinVNZs9E0bXNStjdTYCw3ciqmTud8Agccsak+IniEa94nMcFzLc2WnRiztpZXLtKE6yFj1LNk59MUO6sPucpRRRQIKKKKACiiigDvNJ8e6FZeDYvD+oeEPtsYfzLiSPU3g+0Pk4LhFycA8AkgYrHTX9Ct/GFrq9j4a8iwtirjTjfNIHcZwxdlJxnBxjtjvWHZWN3qV0ttp1rNd3D52xQRl3bAycAc9KilikgmeKdGjkjYq6OMMpHBBB6Gnd3v1FbSxPqeo3Grapc6hevvuLmVpZG9yc/lWlrPiIaloulaTaWn2Oz06M5Tzd5mmY5eUnA5PGB2HGazbvTL/T44JL+xubVLhd8LTQsglXjlSRyORyPWi20y/vbW4ubOxubiC2XdPLFCzLEPViBhRwevpU2srdir3dzS0DxEPD9lqgt7Tff3tv9miu/Nx9nRj8+FxySOM5GKw6KKfW4gooooAKKKKACiiigD2TwVoWr+EZdE+x6VeS3usTQy317HbO0dpa7gRFvAxlsZY54AA96yLXwTfy+Nde1nV9Evp7KwupLhLNbZy98zSN5aqMZKEjJbBGAfWuY0Xx94h0rVLK4l1jU7q2tZEZrRr6QJIqn7nUjGOOhqO+8deI7rVbq8g1zVLZbiVnWJL6TEaliQgII4GcCm3rdefy2/r11EtrPy/U7nxxo/inxbo/hKS60y8N/MZ0uN9uyLAzzAIHyPkGMYz2Fa9lpmqafo3iDwvpmj6gum2ukTos7WbqdQuyVDOMjnphQM/KPevO9T+I+vahoulWMeo6jby2KuJrlb+QtcsX3KzdOVxgZJ/Cl0f4leINNh1FLvU9Svmu7RoImlv5M27kjEi5zyMdsdetLSzXr/wAD+v8AIfVP0OUngmtbiSC5ieGaJikkcilWRh1BB5BqOpJ55rq4knuZXmmlYvJJIxZnY9SSeSajoAKKKKACiiigAooooAvafomq6srtpWmXl6sf3zbW7yBfrtBxVN0aORkkUo6khlYYIPoa9pksbzTPCPhlofFMfhjQo7FLmaWKQie6nf5nAReXwMDB/I1yXxeNpc+JNO1Ox3sNR0yG4d5ECPIcsodgOASFBolo7edv6+4I6q/zOBooooAKKKKACiiigAooooAKKKKAOz0zxzp40O003xT4ag11bDIs5muXgeNSc7CVB3LnoDxWF4k8Q3XifWn1C8SOL5VjigiGEhjUYVFHoKyaKHq7gtEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//2Q==)Ejemplo:

Nota: No aparece el número 11 hasta arriba porque ese corresponde al número de valores dentro del archivo y no se toma como un número entrada para ordenar

Si no aparecen los números que están dentro del archivo de texto, regresar al paso 1 para comprobar que se siguieron todos los pasos a la perfección.

**Importante: Para seguir con los siguientes pasos, se deben de hacer todos los anteriores correctamente, de otro modo nada servirá. NO es importante cuál algoritmo de ordenamiento se ejecuta primero, ya sea heap o radix sort, sin embargo, lo importante es seguir los pasos de cada uno siempre que se quiera correr.**

**Ejecución de Heap Sort**

Paso 1:

Como se tiene el siguiente código:

![Una captura de pantalla de un celular

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEVybmVzdG8gQ2FzY28gVmVsYXpxdWV6AAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAM4MAAAkpIAAgAAAAM4MAAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFADIv9Sn+6KfTIv9Sn+6KfQAVoRyW93LGWimMwAGEI2nHf2rPqf7bceSIvNIQDAAAHFCEF4we9lK8gsagoooAKKKKBhRRRQAV2DazcaN4P0aSxWJbiQTKJ2QMyDfyBngZrj6sTX9zPZwWksm6C33eUu0Dbk5PPU/jWsKjhFpbs0pz5G35HV6Hd22u+JLrUZ7eO3lhs/MH7syjzBgGTYMZ65xSa9qmn32hzR3GspqV8jq1u/wBhaFk5+Zc4xjH8q5S0vLiwukuLOZoZk+66mr+oeJ9X1W0Ntf3fmwkhtvlIvI9wAa1ddez5ev8Awb33/Q3jXXI1Ld3+enqv1OiPijW/+ELS/S7JnF6YmkEKHCbMgYxjr3rM0q4uNRsPEU87GWeW2V3IUDPzDJwKy9M1/U9HV1067aFXOWXarAn1wQaSHXtSt9Uk1GG6ZLqXO+QKvzZ9RjH6USrKUk23tb8Ld/mJV/hbb0/4JoTwSwfD6AzRsgk1Aum4Y3L5eM/pW3rvie60bXY4bWGHyfLjacbBunG0cFiDgY44rlNQ13UtVi8vULppk3+YAVAw2McYHHHbpVe9vrnUbjz7yTzJNoXdtA4AwOlEq9r8mm34Kwe2UU1C+y/M6fTNXNj4a1S/sraJHa9Uwq43CEkHke4FU/Et1JqOk6NqF0FN1NHKssiqBv2tgZxWGt7cJYPZLJi3kcSMm0csOhz1omvbie1t7aWTdFbhhEu0DbuOTz359amVXmhy+n4ClXvDl8vxvf8AIgruLdNL/wCEB0u61VbieG2llBtrfgPIWON7dhj8ea4etLSvEGqaIHGmXbQLJyy7QwJ9cEEZ964a1NziuXozOjNQldm342nE9hohe1Wzk+zufs6/8s0LDYPyFZWu6jqWoWumjUrMW0cFuI7ZhAY/NTjnJ69unFU5LuTVtWWbVrxgZXUS3DLu2Lnk7R6DsK3PFuu2d9p+maVp00t3Dp8ZU3Uq7TKSAOB1AAHf/wCuXSh7Omo+f+f+Yqs1Uqc3l/kcvRRRWpmFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAyL/Up/uin0yL/Up/uip4YjNJsVlXjJLHAFAEdFT3VuLZ0AcOGUMCBipEsk2p51wsUjjKoVJ/M9qBFSinSxtFK0b8MpwabQMKKKKACiuk8IW2j6pd/2RqdjI9xdFhDeRzEGL5cgbeh6Hk1zjLtcr6HFACUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAMi/1Kf7oqVEaRtsalm9FGaii/1Kf7oqVHaNt0bFW9VOKALl/DIFhYxttWJQTtPBq1JnzI5LW38x5FGJW5C/4VltcTOpV5pGU9QWJpFmkRSqSOqnqAxAp3ES37h76QqcjOM+vFV6KKQBRRRQM2/BscsvjHTVgl8p/OzvxngAkjHuMj8ar+ILzT77VpJdK0/wCwQ8gx+YX3HJ+b/Z7cDgYq74X1bSNDkbULuC7n1GEn7MqFRFyuMt3zyawGJZix6k5ofRAuolFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFADIv9Sn+6KfTIv9Sn+6KnhRZJMSSCNcZLEZoAjoqxeQRwPH5RZldA2WqRLWFrWR/OLyKm7ao4H1osIp0UUUDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAGRf6lP90VNFC88gSJdzHtnFQxf6lP8AdFPoA0dQtZhHE5T5Y4grHI4NLZ2c/wBlmOziWMbORzWbRTvqIdJG0UhSQYZeozTaKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBkX+pT/dFPoooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD/9k=)

Lo siguiente es quitar los guiones de la línea que dice “// heapSort();”. Debería quedar así:

Nota: Al efectuar el cambio en el archivo, o sea quitar las diagonales, este se tiene que guardar, de otra manera nunca se verán los cambios cuando se ejecute.

Nota: Se quitan las diagonales porque ahora sí se quiere ejecutar el algoritmo heapSort();

radixSort() debe seguir comentado.

![Una captura de pantalla de un celular

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEVybmVzdG8gQ2FzY28gVmVsYXpxdWV6AAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMwNQAAkpIAAgAAAAMwNQAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AooooAKKKKACiiigAooooAKKKKACiiigAop0cbyyBIkZ3boqjJNPntp7ZgtzDJCTyBIhXP50ARUUUUAFKAT0pKcn3vwoATYfSjYfSpaKAIth9KNh9KlooAi2H0o2H0qWnIjyyKkas7scKqjJJ9MU7XAg2H0o2H0qZ0aN2SRSrKcMrDBB9KSkA+0vL2wkL2N1PbOwwWhlKEj8DRd3l7fyCS+uZrlwMBppC5A+pNMopgRbD6UbD6VLRSAi2H0o2H0qWrM2mX9vbie4sriKFsYkeJlU59yMUNpbgk3sUdh9KtWemXd/5v2SLzPKXe/zAYH4moq6Xwf/AMxL/r2P9a6cNSjWqqEtn/kZVZuEHJHK7D6VJLLPPs8+R5PLUIm9idqjoBnoPalorn8jQi2H0o2H0qWikMi2H0o2H0qWigCLYfSjYfSpaKAIth9KNh9KlooAi2H0o2H0qWigCLYfSjYfSpaKALEOq6pbwiG31C7iiAwESdlUfgDVNg7MWbJJOSSetSUVTbe7JUUtkRbD6UbD6VLRUlEWw+lPkeabb5rvJsUIu5s7VHQD2p1FADZXmnk8yd3kfAG52ycAYHJ9qkhu7y3glht7iaKKYYkjSQqr/UA802imBFsPpRsPpUtFICLYfSjYfSpaKAIth9KNh9KlooAi2H0o2H0qWigCLYfSjYfSpaKAIth9KNh9KlooAi2H0o2H0qWigCLYfSjYfSpaKAIth9KNh9KlooAi2H0o2H0qWigCLYfSjYfSpaKAIth9KKlooAhooooA2fD08UT3SNcJazyxbYZ34CnPPPart/E//CLy/atQjv5I5lKOj79me249awbKa2gmLXlp9qTbgJ5hTB9cip7/AFT7XClvBbx2tsh3CJOcn1J7mgRQooooGFOT734U2nJ978KAJKKKKYGr4ZsrfUfEFva3ib4XD7hkjopI6fSrVxJ4bksbqC3tp7e4hXMFxJIzGZgeQVHC5rO0bUv7I1WK98rzvLDDZu25yCOuD61SY7mJ9TmtudKCSS63/Q2jNRhsr3/A7iy8KxRafaF9Fl1Jp41kknF2IhHu5wq5GcD1qlYW1lofjb+z57M3TfaIxbzNMVMWeQSBw3UflVGPxBZTWkEWsaNHfSQII0mWdom2joDjriswXyQaut7YQC3WOUSRxFi4XBzjJ5NdDq0o1Iyjtf8AD7v835msp01Fcu+n/B6fqzS8Q3umS3V3DbaT9nuRcNuuPtLNuwxz8p4GafeaXZxeLbGyjhxby+RvTcedwGec571X1fV9O1JJHg0dbW7kfe863DMCe/y4xzV6HxdAj21zLo8Mt/Aix/aWlPIH+zjAOO9ZwdPm99rdPbprfp6BKUJSd2tfLz9N/wCrhp+l6W1xrpv4pPIsmzH5bHcoDkYHPOQMc1XuDoV9HatYWz2dwbkRyW5kZw6H+Lcen0qsmt7F1YfZ8/2kf7/+r+Yt6c9fas6CXyLmKXG7y3DYzjODmpjOK5VZW66ef+RM6kFG0UuvT7jsW0/w5Jr0+iQWEwlw+LkzN8jAE4C9wMdTXFVsRa95fieTWPs2d7O3k+Z03Ajrj39Kx6ipKMkmtxVpwk/d7vp00sbXhC3juvFljHMgdd5bae5VSw/UCuzsC7ahd2Wu6z9rub6KQNYRnfHAME5J6KRjGB+tec2N7Np19Dd2zbZYWDKT0+h9q3p/FdsI7l9M0aGxvLpCktyspbg9dqkYXPtXmYilOcvd7eWn9eWuhph6sILXvf8Ar+rGXo02kwTTnW7Wa5RoSIhC+3a/Ynkf1+hrU8H/APMS/wCvY/1q14G02HzLnVNYtrV9JjjaOSS5IO1+D8q9c8jt345qv4TKGXVTGCE8g7Qew5xXuYHTEw+f5M8vEfwpf12OYooorhOgKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAIaKKlS2mkjaRIyUUZLdBSAiop0cbyuEjUsx6AVJPazW2POjK56HrQBDRRRQAUqnB5pKfAkclxGk0nlRswDybd2wZ5OO+PSgQu8e9G8e9a2vaBHpMNndWV/HqFleKximVChypwQVPTrWLQMk3j3o3j3qOigCTePejePeo6KAJN496N496jooAk3j3o3j3qOigCTePejePeo6KAJN496N496jooAk3j3rX0HWbfS/tf2hJW8+LYuwA4PvkisSitKVWVKanHdETipx5WSbx70bx71HRWZZJvHvRvHvUdFAEm8e9G8e9R0UASbx70bx71HRQBJvHvRvHvUdFAEm8e9G8e9R0UASbx70bx71HRQBJvHvRvHvUdFAEm8e9G8e9R0UASbx70bx71HRQBJvHvRvHvUdFAEm8e9G8e9R0UASbx70bx71HRQBJvHvRvHvUdFAEm8e9G8e9R0UASbx70bx71HRQBJvHvRvHvUdFAEm8e9G8e9R0UASbx70bx71HRQBJvHvRvHvUdFAEm8e9G8e9R0UASbx70bx71HRQBJvHvRUdFABV6zld0mVmJVYGCjPSqNWob9oI9iwQnjBYpyR70IQ/T13R3GHEZ2D5j2GeakYwf2bMkO9lUqd7dz7Cqou3S4M0aohIwVVflI+lE9286BNqRoDnbGuBmmBBRRRSGFFFPgi8+4ji3pH5jBd8hwq5OMk9hQI6v7PaXfw4s31K7+wvbTT/ZBsL/ac4JGB93njPSuRrp/E32Sy0HSNIt7+3vprXzZJpLZt0Y3kEAN36VzFHUfRBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRViOxmeEy4CoFLDceo9qBFeipIYZJ32xLuOMn2pbiBraXY5UnAOVPFAEVFFFAwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACrliSfPyScQsBVOrMeoXMMYSOXCr0G0f4UIRXBIzgkZ4NWtR/4+V/65r/KoxeTi4Mwk/eEYJ2ilmvrieMpLJuU9toFMCvRRRSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH//2Q==)

Paso 2: Ejecutar el programa *main.cpp* y observar que el resultado es el conjunto de números iniciales, pero ya ordenados por el método Heap Sort.

**Ejecución de Radix Sort**

Paso 1:

Como se tiene el siguiente código:

![Una captura de pantalla de un celular

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEVybmVzdG8gQ2FzY28gVmVsYXpxdWV6AAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAM4MAAAkpIAAgAAAAM4MAAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Lo siguiente es quitar los guiones de la línea que dice “// radixSort();”. Debería quedar así:

Nota: Al efectuar el cambio en el archivo, o sea quitar las diagonales, este se tiene que guardar, de otra manera nunca se verán los cambios cuando se ejecute.

Nota: Se quitan las diagonales porque ahora sí se quiere ejecutar el algoritmo radixSort();

heapSort() debe seguir comentado.

![Imagen que contiene texto

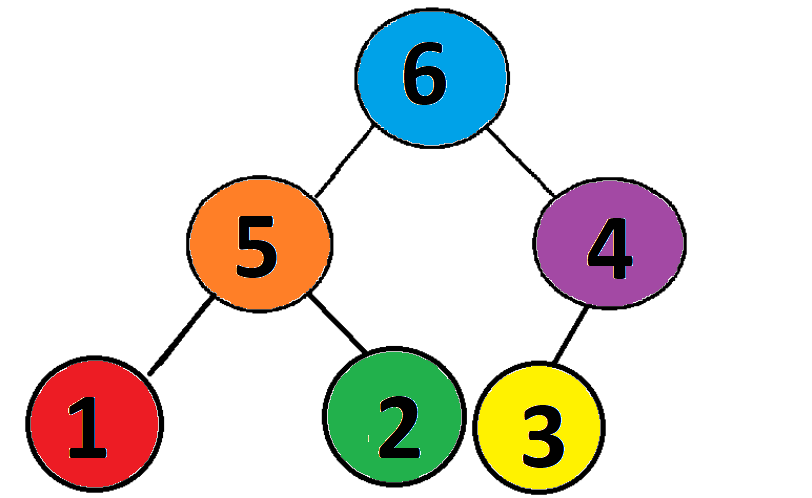
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automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RESRXhpZgAATU0AKgAAAAgABAE7AAIAAAAYAAAISodpAAQAAAABAAAIYpydAAEAAAAwAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEVybmVzdG8gQ2FzY28gVmVsYXpxdWV6AAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAMzNwAAkpIAAgAAAAMzNwAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Paso 2: Ejecutar el programa *main.cpp* y observar que el resultado es el conjunto de números iniciales, pero ya ordenados por el método Radix Sort.

**¿Qué es lo que pasa en la computadora para ordenar los números?**

El programa implementado tiene funciones que permite al usuario ordenar una cadena de números a partir de un archivo de texto, y se usan dos métodos para hacerlo: Heap Sort y Radix Sort.

Heap Sort

Heap Sort es un algoritmo de ordenamiento que se basa en el acomodo de los números a ordenar en un árbol binario, con la única condición de que el nodo padre siempre va a ser mayor que el hijo. Una representación visual sería la siguiente:

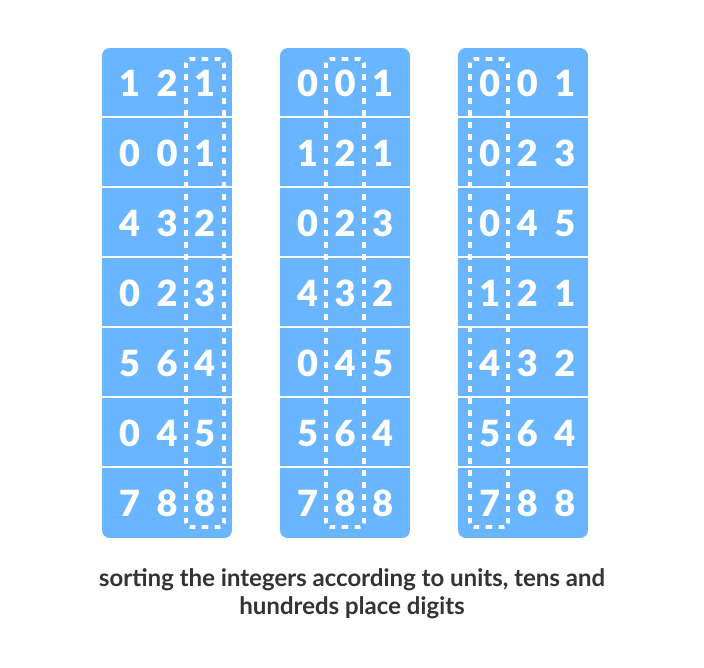
Hijo de 4

Hijo de 6 y padre de 3

Padre de 5 y 4 (raíz del árbol)

De esta manera, a partir de comparaciones por hijos y padres, naturalmente si se comienza desde abajo, el número más grande va a subir a la máxima posición (raíz, no es hijo de nadie), una vez identificado, se sustituye con el último nodo, en este caso se cambiaría el 6 por el 3 y se repite el proceso, pero ahora sin comparar el 6 con su padre porque ya se sabe que es el mayor. Posteriormente esto se va a repetir tantas veces como números se quieran ordenar.

Radix Sort

El algoritmo de radix sort se basa en el ordenamiento de números por dígito, de derecha a izquierda. Ejemplo:

En el caso en donde se tenga un número de menos dígitos que el mayor, por ejemplo el 1 y el 788, para seguir comparando el 1, se le tomarán 2 ceros a la izquierda.

Después de ordenar los números por el último dígito, luego por el segundo y finalmente por el primero, el conjunto de datos quedará ordenado.

**Referencias:**

Algoritmo para lectura de archivo y llenado de arreglo: <https://stackoverflow.com/questions/14516915/read-numeric-data-from-a-text-file-in-c>

Algoritmo para imprimir arreglo elemento por elemento:

Código *Arreglo.cpp,* tomado de la sección *Códigos* en el curso de Análisis y diseño de algoritmos.

Algoritmo para dividir los números por cifra:

<https://www.youtube.com/watch?v=8aKFU4GRjHA>

Documentación para elevar un número a la *n* potencia:

<https://stackoverflow.com/questions/845912/what-is-the-c-function-to-raise-a-number-to-a-power>

Imagen de ejemplo para explicar Radix Sort:

<https://www.programiz.com/dsa/radix-sort>

Imagen de ejemplo para explicar Heap Sort:

<https://medium.com/@randerson112358/lets-build-a-max-heap-161d676394e>

Vídeo para mejor entendimiento de Counting Sort:

<https://youtu.be/OKd534EWcdk>