![Graphical user interface, text, application, email

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM1NQAAkpIAAgAAAAM1NQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Problem statement.

Brute force would be taking all the elements in 1 array and then sort them. Then find the kth smallest element.

TC-M\*nlogm\*n and SC-m+n

You can also use heap in this.

Priority queue.

Text

Description automatically generated

We can do is take 2 pointers in the 2 array and check with each 1 by one and then increase counter by 1.

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MwAAkpIAAgAAAAM3MwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Like this.

A picture containing text, clipart, blackboard

Description automatically generated

Here time and space complexity if used like this. This is the efficient solution.

For optimal is binary search solution.

This is somewhat same as median od 2 sorted arrays. Hence same logic.

A picture containing text, device, meter, gauge

Description automatically generated

1st half made from both arrays. We have just to find how many elements taken from both the arrays.

![A picture containing graphical user interface

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMwMwAAkpIAAgAAAAMwMwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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odvNNcXLcRuxjKrCCerMWAwK53w74u1nws040e5VYLkAXFrPEssM2Om5GBBI9etP8AEXjPXPFCwxareAWkAxDZW0Yht4vdY14z79aAMLJPJABJzgdvaiiigArqfFWqWd94S8G2dlcJLJp+nSx3Ma5zFK0xYg/UYNctRQAV33gvxd4Y0Pwrf6XqNpq1pqGoEx3GraaY2l8g/wDLJQ/3VPfHJ9a4GigDtQ3wut+Qviy/PZD9nt1/MZNYviK98NXccKeGNEvNMaNiZZLq++0GQdgBtAFYlFACCloooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAO3+Ga+e/iy0Bw9x4auwp/3dr/AMhXDKcqD7V1Xw51q00PxtbSaqSun3kUlhduOqRzKULfgSD9BWN4g0K68MeIb3RNQAFxYyeUxHRxjKsPYggj60AdLZr9n+A2pyrw154igiYnuqQs2PwJri61ZvEE8vg2z8OiKNLa2vZb0yAndI7qF57YAHH1rJoAWikooAWu9+FtrpslxrF99nS91/TLNrzS7S5/4922cu746so5UHAP1rnvDsnhOGOebxVDq13KjD7Pa2LpHHIMc73PK/gK0tV+IM02lTaR4b0mx8O6XONs0Vmpaa4X0kmb5mHtwKAOZv8AUbnV9Qn1G/ne4urpzLNM/V2Pc1XpM0ZoAWikzRkUAa9h4r8QaXpr6dpuuajZ2bklreC5ZEOevA6Z9q6GYmz+BUGcmTVvEEkrseSyxQgA57/MxriK6PWvEFleeAfDWi25kWfTWupLreuELSyArtOeflFAHN5q/oVob7xHpttGpaSe7iiVR33OBioNP0691a6S20qzuL2dzhY7eJpCT+Ar0LR9FT4XbPEfizyxr8ak6ToiuGdZCMCefGdirnIXqTQBzvxLuFufin4llQ5X+0ZVBHfadv8ASuYp0ssk8zyzuXlkYs7nqzHkn8TTaACiiigAooooAK7TWP8AkifhT/sK3/8AJa4uuz1gbfgr4TB4LapqBHuMJQBxlFFFABRRSr+XvQAHgED0wa3/ABNr1rq+leGrKxikjXSdMFrKJAAGlMjMzLg9ORWA3GP0FNoAX60UUUAFFFFABRRRQAYx0/GijtRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAGM5BrurXxBoHi/SrTSvHMk2n6lZxC3s9fiXzAYx9yO4TqyjJww5FcLRQB6Na/Bu/aK4n1HVoLe0ADWl/aW0l9bXSnOTviyUxjowHWq0nw10y3I+1+ONNjX20+6J/LZXIaVrmraFIz6Lqd5p7N942tw8efqAcVuJ8T/ABxH93xXqv8AwK4z/OgDR/4RLwRa83PjPU7sjqlj4fl5+hcil+z/AA5tR8umeNdRb1aKK3X9FJrO/wCFpeO/+hr1P/v6P8KP+FpeO/8Aoa9T/wC/o/woA1ItT8EIQlv8N9avHPC/aNTlyfwRK1raysLoD7N8D9WlB6H7ZdfzK1yp+KPjpkKnxXqmD6TYP54rOufGfim9BF34l1eYEYIe/lI/9CoA9Th8IS+T5qfBuztAw+U6pr7Rj/vlmBpRpNva/LeeHfhhpmOqXurPK4/75JrxKZ5Ll91xLJK396Ryx/WmBAvQAfhQB7ZIfDNrlr9vhTEg4/0dbm4b8lxUF7rvwtXTp7a8TR7h5oygl0LQZleLI+8sk0mAw+hrxyigDt/t3wvtgGg0jxTfsP4Li7hhVvrtUmg/ETTtPyPDPgTQbD+7NeI17KPfLnGfwriKKAOvvvit41v7Y2za5JaW7DBisYkthj0/dgH9a5Aks7O7MzscszMST9SeTRRQAUUUUAFFFFABRRRQAV2viv8Ac/CzwDCOki39wfqZgv8ASuKHUV2njA/8W7+Ho9NPuz/5MGgDi6KKKACjOKKKAD69aKKKACik70tABRRRQAUUUUAFFFFABRRRQAUVNZWd1qV0trp1rNeXDHCw28Zkcn6Dmp9Y0XUtA1FrDWrOSzu1RXaGXG5QwyM4zjigClRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRV7RtG1DxBrNtpej2z3V5cttjjT9ST2A6kngUAUelbugeCfEfidWl0bSppLZBl7ubEMCDuTI+F/LNdHcal4b+H0hsdEtLTxH4ghBW41S6UyWtvJ0KwRHh9v8AfbuOK5nxD4x8Q+Kdo8Q6rPdRL9y3GEhT6RrhR+VAHaeH/hNp+pXUltceJV1K5hAaa28P2/2kRD/bncrEv59q3/8AhBfAGjvtnGmz3AyDFrXihI9p90gU/lmvF472eCyltIbqaK1mZWlgRyschXoWXocZoNjcw24ne0ljgPSRoSE/76xigD1PxB4d+Fc9grQeJLLQ9SDjcmnS3Go27L34ZQQfTnFc43hTwTMP9D+I8KN3+2aPPGD9CCa4rNFAHZ/8IZ4Y/wCil6N/4AXP+FH/AAhnhj/opejf+AFz/hXGUUAdmfBHh98C3+JXh8k/89beeMfmRUg+FGt3Rzomp6BrSHo1lqsYP/fLlSK5bS9D1bXJjDo2mXeoSD7y20DSY+uBx+NX9R8A+KdIs2vNU8M6ha2yDLzyWx2p9SOn40AbL/B/x0ikjw+0uOcQ3cLsfoA+TXP6p4V1/RI2fWND1KxjXrJPaOqf99Yx+tZKExsGjJQjoVOP1FdDo/j7xXoUyNp+vXvlrwbeeUzQuPRkbIIoA57tkcj1ort/Eul6b4k0GXxl4WtltfLdU1nS0Py2cjcCWMf88mP/AHyePpxFABRRRQAUUUUAA6iuz8Yn/i3/AMPR/wBQ26/9KDXGDqK7Pxj/AMiD8Pf+wbdf+lBoA4yiiigAooooAKdFDJcTJDApeWRgkajqzE4A/Om12HwptYrj4m6VJcjdFZmS9YHv5MbSD9QKAHfEBNO0Oa28IaVZ2xk0gD+0NRCfvbq7Zf3g3f3F+6F9QTXG12kHhjStStY9a8TeOtL06fVC9yIEhlupVLOc+YEHynPasjxP4TuvDMlrI11a6hp99GZLO/s3LRTqDhgM8hgeCp5FAGFRRRQAUUUUAFdB4e8PQaroPiPVb2aSGDR7JZI/Lx+8ndwkaHPY8k45rn67XQSU+C/jBoxln1DT0fH8KZc5/OgDiScKSewJrvrjRvCvgi4RvEUV54gvpLO3ubexUfZ7ZvNj3bnkBJZVPGBjNcFXf6E8PxC8OW/hW8cR+INMic6JcOcC6jHzNaufXqUJ+lAFG9+Kfiea1a00qe20Gybj7No9utsAPTcBuP51x7yPLIzyu0jscszsSSfUk9aHRo5HSRWRkYqysMEEcEH8aSgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArvXuz4M+Fmn/ANmnytU8VpM91dr9+O0R9giQ9gxBLeo4rgq7TxsjXHgjwJfQfNarpUtoSP4ZkmJdT78g0AcYcYwvTjHFJR2ooA0NB1mbw/rMOpWsFrPNCG8tbqESoGIwG2ngkdR716F8O/HPivxL8RtN0zXNaudR06+aSO8tLgqYXi8ti3y4wMAZ4xjFeXIjSOqRqzuxwqqMkn0A716J9lT4X+Hrs37qfF+r2pt4rNSC2l20g+d5COkjjgL1AoA88kCiaQR/cDsF+mTj9MU2jGB0wO1FABRRRQBtQeMfENp4fi0Sy1a4tNPjd38m2byt7Mcksy4LfieK674bxeIIml8YXeu3umeHdLk/025MrSm5IwTAsZyHLZAORgZrzeul8E6h4wttajt/A73sl1MebWFS8Uo7+Yh+Xb6k9u9AGPrV/b6pr9/f2Vmljb3Vy8sVqnSFSchRjj8qpV1nxMh0qHx3dJoqWsaiOL7VHZn9xHc7R5yx/wCyG/XNcnQB23wtPm6xr1gwBhvfD19HID/soGU/gRXDqcoCfSu5+Fy7NS8RXjfKlr4cvnZj2LIFH6muHUYQD2oAWiiigAooooAB1Fdn4x/5EH4ff9g25/8AShq4zvXa+KVF18L/AAJeRnIgS9sZMdmWXePzDUAcVRRRQAUUUUAFdX8NtTsdL8Zo+q3SWdvc2lzafaZB8sTSxFFZvbJ5NcpRQB1N78L/ABpp0ywL4du71GA8q509PtEMwPRldOMH3xV/x0qeHvDuieChIk15pzS3mpOjbliuZcfuQf8AZUAH3rk7PWdU063aDT9UvrWFvvRwXUiKfwBxVMkkksSSTkknJNACUtFFABRRRQAVdtdXv7LTL/TrW5aO01FUW6iwCJQjbl69MHuKpUUAFdF4P13RfD+oG+1fRJtUuYJEms2jvWtxC6nOWAB3DOPy9652igC5rGpy61rl9ql0qJNe3DzukYwqljkgD05qnRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAV2PhLVtMvtCuPB/ieY2tjdXAubHUAu77Bc427mHeNhgN6da46igDY8Q+Fta8LXz22tWEsCgny7kKTDOvZ0fowNY+M8jkV0ehfEDxR4dtvsunatI1kRg2d0qzwEemxwQPwxWjJ4/0y9fzNY+H/hu7mPLSwJLbFvchGxn8KAOT0/ULvStRgv9Ona3u7dxJFKuMow7jNdavxY8STqF1uHSNeA6HVdOjlYe24AGmnxF8O7hQ1x4GvrR+4staOzPsHU4/OiPU/hnIcL4Y8RMfRNVRv8A2WgDL8ReKIdftoY4/Dmi6S8Tl2l023aNpOMYbLEY71gV6DDbeCrr/j08B+MpvQxXO7/2nV+Hwnodwf3Pwz8euPab/wC10AeX0V64nw+06b7vww8cD/ev41/mtWo/hjZnkfDPxYfaXWbdAfx4oA8ZxWpaeK9b07Qp9FsNXuLTTrhzJNbwuEDsQAckc4wBxnFerf8ACJ6xZvnSvg1oiqPutqGpC5c/XMgBp8lt8ULeNms/A3hixijBbZDZ2p2gcnlnJNAHikETzuI7WF5nPRIkLk/gK6XR/h14s1ohrfRLm1tuS95fJ9ngjA6lnfHA9s1dm+LvjSWNorXVI9OjbqNPtIrcn8VXP61zuqeIdb1xs6zrF9f8Yxc3DSD8icUAdLrOq6J4a8N3fhjwldf2lc34QatrAXbHKqnd5EIPPl56sfvYriKBnHzHJ9aMUAFFFFABRRRQAV21mftvwL1SOQbjpeuQTQn+6JoyjD6ZUVxNaVtrt5aeG9S0OIRm01GWGWYsvzBoiSu09uvNAGbRSDIFFAC0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVd0WNJfEGmxyoro95CrKwyGBkUEEdxiiigD7Uj8DeEknynhfRVIzgjT4hj/x2n6vp9npGhzPpVpBYuMYa2iEZH/fIFFFAHz54w8W+I7aZxbeINUhHPEd7Iv8AI15lqnjTxTJnf4l1hue9/Kf/AGaiigDJOv6xcD/SNWvpc9d9y7fzNRpeXMhPmXErfVyaKKAJQzHIJJ4HU0n8NFFADqWiigAooooASiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP//Z)

The logic would be that we puck some element from 1st array and rest from 2nd array.

A picture containing diagram

Description automatically generated

Here k=5 hence rest are according to this.

![A picture containing graphical user interface

Description automatically 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V2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APDaKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAq7p2o/Y/NguIRdWNwAtzbOcCQdiD2YdQw6fSqVFAG1rl7p09lZ2+ntJMYMhZJY9rpFgbY2OTvIOTu98DisWiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA3vDPh6LXrPX5pp3hOlaXJfIEUHzGVlAU56D5qwa7b4ef8AIJ8b/wDYuTf+jI64mgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDtvh5/yCfG/wD2Lk3/AKMjria7b4bndbeMouu/w1cn/vlkP9K4mgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDt/hcN+qeIYf8Anr4bvx+SA/0rh1OVB9q7b4VH/iq9QX+/oeoD/wAg1xEf+rX6CgB1FFFABRRRQAVr6H4T8QeJXxoOj3l+AdrPDESin0LnCj8TWRVxNY1OLSzpkOpXkVg7l2tY52WMsRgkqDgnigBmo6be6RqM9hqltJa3du+yWGUYZD1/lzmq1dv8Tm+1SeFdVfmbUfD1s8zdS7oWTJ98KK4fn0NAC0UUUAFFFFABRRRQAUVo+HHjj8V6O88Uc0S38HmRSrlXXzFBBHcVc8c2EOmfELxBY2qLHBBqMyRoowFXdkAD0waAMKiuh1Xw9bWHgTw5rcc8jXGrS3SSxsPlQROFUjv3Oa05fhy15YTXXhHxFpniVrZd89paB4rhVxyyxvguo9vyoA4uiiigAooooAKfHFJKHMcbuI13uVUnavqcdB7mmV2ngvMPgT4gXanDLpUMAPtJOoP8qAOLrpdA03wbd6cP+Eh8RX+m30jsoEWn+bDCo6M7Zyc+i9K5qt7wn4Wl8UahKJLmKw0yzj87UdQnOEtYs4z7seijuaAIfE/hu58L6x9huZ4blJIUuLe5tyTHPE4yjrnnBFY9dB458S2niPxM0+nIYdNtYI7KwjcjcIIhtUn3PJP1rAZWRsOrKcZwwIP60AJRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRWj4dhjuPFOkwzoskUl9CjowyGUuAQfYirXjS1gsfHuv2tnCkFvDqM8cUUYwqKHOAB2AoAxKKKKACiiigArb0zwV4o1m1FzpPh7Ury3b7s0VsxRvoeh/CsSu30iTxh8R9cC3Ou3kVnaxh7q8MzRW9jAo5bauFHA4AHJ/GgDjbq1uLG7ltb2CS3uIm2yRSqVZD6EHpUVdJ4/8AEVt4p8aXWpaf5ptBHFbwPOcySpGgQO5/vNjJrm6ACiiigAooooA6DwtodprWn+JZrsyh9K0lr238tsAyCRVw3HIwx4rnyRux+prqfAmr6Xp8+tafrs81pZ61prWJu4YfNNuxdWDlOrD5cHHNaVtpvgbwtIdR1HXF8WTod1tptjbPHC7DlTO7gYXP8I5OKAMzX/Bknh/wT4d1u7eVbjWmmYW7rgJEuNjevzA5+hFcvXo/xA13UPEfw58J6pq03m3FxeaixwMKgDqFVR2UAYArzigAooooAKKKKACiiigAooooA7b4Tc+OJU/v6Tfr/wCQDXDRf6pfoK7j4THb46d+yaVfsf8Avw1cPHxEv0oAfRRRQAUUUcUAFbXhzSNJ1OWeTXvEEWjWtuFY/uGmlmzn5Y0XqRjnJ7isbimsMqQvXFAz2HxtdeBNKsfCdrf6TrGtGHQ4mtm+1C0UwszFS6gE7icnHTGK888Rat4f1CG3Tw94abRmRiZZHv3uDKOwwwwMHnIqz4816z1/xBbT6X5n2O1021s4xIm0jy4wGGP97NcyTkUCCiiigAooooAKKKKALWlnbrNiR/z9RH/x8Vv/ABPGPiv4nH/URkP6CuYjdopUkjO10YMp9CDkGrGp6ld6zqt1qWpS+dd3chlmk2hdzHqcDgUAdvpNg/jn4Z2GgaTcW39uaNfzyxWU8qxG5t5sE+WzcFgw5WrvhnwvqPw01B/FvjKBNNfT4ZRp1m8yNNdXLqUQBFOQg3EknjivMMfzyPalJLSb3JdvViSf1oAOTy3UnJ+tFFFABRRRQAV2fgphP4J8e6eCBLNpUVwgJxuEUysw/I1xlAoAUitnw34r1LwvLc/YBbT293GIrq0vLdZoZ1ByNynuDyD1FY1JQB2//C1tYhIbTNH8N6a6/de10eIMv0LZrldX1jUdf1WbUtZu3vLybHmTSYycDAHHAAHGKpUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAbPg6E3HjrQYV6vqVuOP+ugp3jaYXHxC8RSr919UuCMf9dDWn8KbYXXxV8PhiAsN19oYn0jRnP8A6DXMX9ybzU7u6Y5NxO8p/wCBMT/WgCCiiigAooooAK2NA8Wa94Xkkbw/qk9j5xBlSMgpJjpuUgg9T1FY9WdNvE0/U7e8ks7e+WFw5trpS0UuOzAEZFAHdau9n4q+GV74r1bSLXStVgvIrW2vbFfKTU2P+sBi+7lQMl17155Wz4j8V6t4qu4ptVnXy7dNlvawRiKC3X0RBwPr1NY1ABRRRQAUUUUAFFFGKAO18Rkf8Kg8FDIz9p1LIz/01WuKpfmxjJwOgzwKSgAooooAKKKKACiiigAooooA7b4Yjyb3xJfnpZ+Hb1wfQsoQf+hVxCjagA7DFdt4KHkeAfH190xp9vaA+8s44/Ja4qgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACgUUUALSUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFixv7vTLxLvT7mW1uEBCyxNtYAgg8+4JH41X+lFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFvStQOlatb3wtbW88h932e8i8yKTjoy9xXVt4/0ec5u/h14ZkP8A0xWWH+TVxNFAHa/8Jt4ZI5+GujfheXA/rVDWfFel6jpL2Gm+DdH0jeyt9phaSSZcHOAzNwD0PFczRQAUUUUAFFFFABRRRQAUUUUAdppm61+B/iGfoL3WrO2B9QiO5H61xQ6V214fs/wH0qHve+IbiY/SOJV/rXEjpQAtFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUmcc0Adv4txb/C/wFaDq8V7eMPd5go/Ra4gdK7f4jD7PZeDLLoYPDkDke8jO/wDUVxA6UALRRRQAUUUUAFFFFABRSE4GTW34h8L3XhmDTDqU8AutQtvtJslJMttGT8nmdgWHIH50AYtFFFABRRRQAUUUUAFFFK0boqs6MquMoxUgMPUHvQAlFFafh7w9qHijWI9N0mESSupd3dtscMY+9I7dFUdzQBmUV3Eh+Hnhp/K8q98Y30fDyeb9lsd3ooHzuAe+RmuS1S8h1DVJ7q2sLfTopGBS1tt3lxjAGBuJPbP1NAFSiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACitnQPCPiDxQX/sDSLm+SM4klRcRofdzhR+dO8ReDdf8ACfkHXtPNtHc58mVZFkRyOoDKSMj060AYlFFFABRRRQAUUUUAFNk4jb6U6ljTzZo4/wC+6r+ZAoA7b4t5i8cQ2Z6Wek2MAHpiAH+tcOOldp8XpfM+LmvAdIpY4R9EiVf6VxdAC0UUUAFFFFABRRRQB0Xw+0eLX/iJoWm3Kh4JrxDMp6Mi/Ow/ELj8ap+Ktam8R+LtU1e5JMl3dO4yc7VzhVHsFAH4V0Pwd4+KenPjc0cF1IgHdhbuR+tQw6J8P1t4Uu/GGqtcPGrSyWuk5hjYjJX5mDHBOM4oA46itrxV4al8L6ulqbmO9tbiBLqzvY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as this should be fulfilled.

![Diagram

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NZ8fStpsmieELNfDuhtgPHbuTcXWO8833mJyflHHPeuXs9OvL5ZfsNrLcCFQ0gjXOwE4B/OuvsvhL4kurdftBsbC8miaS0027uQt1dYUthYhkg4B64qH4arc6hrd3o5uns9OuLOW5vpVjUvEsKM6uCRwQ2OMgHPNAHHEEMQQQQcEEYINFbdxZS3ksVvcus9/MgazvYwdmoJjgE9pR055PQ9icVlZHZHVkZThlYYIPoR2oASiiigAooooAKKKKACiiigAooooAKKKKADNFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFKqtJIkcas7uwVEUEliegAHU1oaDpA1zWoLBr+009JNzPdXkmyOJVBJJ9TgcDueK61/GGieD4ntPh1atNfbSkniO/jBmb18iI8RDrz97mgBlv4P0rwlaR6j8R2fz3G+Dw5bvi5m9DM3/LFOnH3jWJ4m8aap4nENvN5dlpdrxa6XZr5dvAPZR94/7Ryaw7m4nvLqW5vJpJ7iZi8ksrFndvUk8k1HQAjHCk+1dv8AEkCOHwjZ44h8M2vA9XLOf51w8n+qf/dP8q7f4rfL4s0626fZ9EsIv/IIP9aAL3ibVLuDSfh/4xV9mstalXcjDTC2lxHIfXcvy574p8/i/wAMaH4jvde8M2z6gmuW80OoaNfRGJLVZcFlSVT8wLA9B0NcVrniDVPEmoLeazc/aJkjWGMBAiRxqMKqqMBR7Cusg8J+HNE8A6X4i8X/ANsTya08wtItMdFSNU4DOzj7xPYdqAKF98QZL61isP8AhH9Hs9KiO6Oys4TEVbj5hLnfuIGDzyK5i9vJdQvpry5x5szl22jAHtVf60tABRRRQAUUqqZHCRgs7dFAyT+Fao8J+Izavc/2DqXkRoXeX7HJtVRySTjge9AGTRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRToopJ5o4YI2llkYIkaLlnY8AAdyaAG0Vv6z4F8U+HrMXetaBfWdscZmeLKLn1IyB+OKwKACiiigApCQOpxS10nhbW9G8P2l/fXmlRaprIMa6dFeR77aLk75HX+JhwFB45NAHNZAAJPB6H1pa9X8EeNdc8b+Ko9D8VfY9Q0KWGWS8hks40S2hRCTIhUAoQcYPvXlHy87CSuTgnrjt+lABRRRQAV1fhLw7p1zpd/wCJfFDzpoWnMIvLgO2S9uGGVhQ9vVj2FcmThTgZPYV3PxLf+xho3g2A7YNEske47eZdTDzJGPrjKqM9MUAcQcMxwu0Ekhc5wOwz3ooxjrQaAENFFFAAEMhCDqx2/nxXbfGIgfFbVYl6WyW8Ax22QIK5TSYPtWuafbj/AJbXcUfHu4Fb3xOm8/4q+JnJzjUZE4/2fl/pQByhJ2nHXFetp410bxLrA8HTyvF4Vu7C2sLKWdNps7qNPknwemZGZW9QQa8lxRgEYoAt6rpd5omsXWl6nEYbu0lMUyHsw9PUHqD6GmWNlcalqFvY2MTTXNzKsUMa9XdjgCut8YXsHibwfoXiaS4jOrx50vUoy48yUxjMU+Opynyk+oFP+HAXR11vxjOoK6DZn7Lno13N8kQ/DLN+FAHG3drNY3k1pdJsngkaKRcg7WUkEZHB5Bp0dhdy6fPfQ20r2tsyJNOqZSNm+6GPYnBx9KhZmdyzsXYkksepJ6mu2uVki+AummwRmhuNcmbU5FH3JEQCFWPYEEkZ70ANb4mXulwra+CdNsvDlusYVpYY1mupWx8zNM4zyewAxWLeeM/E+oxul/4i1W4SQEOj3khVgeoIzjHtWIaKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACp7G+utM1CC+0+d7e6t3EkUqfeRh3FQVpeH/wCxRrULeJ/tp01QxkSx2+a5A+VQWOACep6igDsfhrd39sviDXtXu7htAgsZ475J5WaO8mlUiOIA8M5Y7vUAe9edICI1DdcDNera9f8AhHx1aWWnaL4hbwva2SAWmj6jabbVXIwWMyE5Y/3mz1rzrW9HudA1eXTr5oHmiCtvtplljYMMgq68HigChRRRQAUUUUAexfD3/hE9W8MXPhjTLfXra6v7fzNa1xViSO3jQFmQsc4hz2GC1ePPsEjCJi6BiFYjG4Z4OO2RW3feNPEWo+HbfQbrVJDpVuoRbWNVjVwOm8qAXx75rDoAKKKKAAHaQQM4IOPXBr3XxPqOpahc/wDCSeCPBOieIbLU1WWW+axN9cJLtAaORM/IVxgADBHNeFVZsdSvtMlaXTL25spWGC9tM0ZP/fJGaAOq+KGlWeleJrP7JYR6Xc3enQ3N/psX3LOdgdyAdgRhtvbNcYadJLJNK8s0jySOdzO7FmY+pJ5NNoAKKKKANzwRCLj4heHoT0fU7cf+RBUfjCUz+OtelPO/Urk/+RWq18Pefib4Zx/0FLf/ANDFZ/iU58Wax/2ELj/0a1AGbRRRQAnfJrsr26trD4M6dp8E8T3Wq6rLeXKIwLIkKiNAw6jJLEZrjqQ9c9/WgBRXafDZvFv9ryReFbM31pNhNQtrqPdZSR5587PyjAzznI7VxdWo9U1CLTJNNiv7mOwlfzJLVJSI3bGNxUcE49aANLxrb6Na+NdVg8MSLJpSTkW5RtygYGQp7qDkA9wBWHRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFHA6AAewxRRQAUUUUAFFFFABRRRQAUUUUAFbNn4blv/BupeILe6iI0y4ihuLUgh1WThZAehG7jHWsau4vIz4Z+D1vYzZS/wDFF4t60Z4KWkORGSP9pySPYUAcPRR0ooAKKKKAOj+HX/JT/DP/AGFLf/0MVneJP+Rs1j/r/uP/AEa1aXw5Gfij4YA/6CkB/wDHxWVr7bvE2qt630//AKMagChRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWr4f8PXPiK4vY7aWKBLGylvZ5pidqRoM9u5OAPc1lV6B8LrY31j4ssLWGK8v7vToo7execRNdqJ1aSNWJHJVe3NAGb4O8Pae2nTeKvFyyDQbKQRx2y8PqVx1ECnsvGWbsOKx/E3iK88VeIJ9W1EIkkoCpDEMRwxqMLGg7KBxV3xj4kv8AXdQis7mxj0mz0pTa2ulQAhLQA/MOeS5P3mPJNc5QAUUUUAFFFFAGz4OvhpnjrQr5/u2+owSNn03jNP8AG9gdL8f6/ZMP9TqM4HuC5IP5EVhFig3qcFeQfcV3HxeQv8RJtQ2FY9UsrW9Qkfe3wrk+/wAwNAHEUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFdJ8OdOt9W+JWgWN7Ck9vLeL5sUgyrqASQR3HFV/G+jf8I5461jSVXEVvdP5P/XNjuT/x0igDDoBIYMCQVOQQeQa6Xwx4G1HxNave/arLStOWZbdb7UZfLjkmbpGmAS7fTp3rD1TTrnR9Xu9Nv0EdzZzNBKoOQGU4OD3FAFcsSSTyT1JPWkpM0ZoAWikzRmgBaKTNGaADrU91e3V60RvLiW4MUSwxmVy2xF4VRnoB6VBmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNAC0UmaM0ALRSZozQAtFJmjNABRSUUALRSUUALRSUUALRSUUALRSUUAdb8K3RPit4eMn3Td7PxZGH9aX4qX0OofFHXHtmDRQzLbKwOc+UgTr9Qa5/RNTbRtf0/U4+WsrmO4AHfawP9K6/wAZ+AdZk8Q6vrOi2DXOgzF9QgvkdREYn+fqSORkjHXigDC8J+bq/ivw9pF9esunR6gjKksuI4QWDOwBOASF69+K6jxnZ+EovEuu6nruutqWo39zNNBY6IVaODJ+QyzMMHtlVrzfqOeRR0GKAAZwM9e9LSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUAJmjNNooAdmjNNooAdmjNNooAdmjNNooAdmjNNooAdmn+fKYREZZDEpyIy52j8OlRUuaAFozSZpKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAHZozTaKAP/9k=)

Here l1<=r2 but l2<=r1 is not and hence we can it is not entirely sorted.



Another example is this as taking 4 number from 1st array here l2<= r1 is but l1<=r2 is not . hence this is not sorted too.

Explanation:

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MwAAkpIAAgAAAAM3MwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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K=5 here.

Here 0 is min element that can be picked from array1 and all 4 elements can be picked from array 1.

Here 0 is low and 4 is high.

![A picture containing text, clipart

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0OQAAkpIAAgAAAAM0OQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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FFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXVaDreiy+Fp/Dvik3sdqLwXtrc2Uau8T7droVJHDDH0IrlaKxrUVVjZ6DTszrdQ8dy295psfhBH0rT9JVxaxuQ7ys/8ArHl7MW6EdMcVg65rl/4h1Q3+qTCSbYI0CIESNB0RVHCqPQVn4oxU08LRptOK179SnJs6LwXrtlouq3S61HNNpeoWclneJB/rNjcgrnjIYA1gzeX58hhDCMsdgc5YLnjOO+KYOKCauNKMajqLdk30sb/gfWbXw/4107VNQ8wW1uzl/LTc3KMowO/JFc/6/Un9aWkFNU0qjqdXp9wX0sLRRRWggo5ozRmgAooooAKKKKAL2jaNe69qSWGmpG87Kz4lmWJQq9SWYgV0f/CvHh41LxP4bsmHVW1ESMPwRTXGkBhgjNAVR0UflXPUhWlL3J2XoUmjsD4M0Vfv+PdBz/spO38koHgzQ/4vH+hge0U//wARXIVpaJoN94hupLbTfsvmRp5jfablIFxnHVyAT7CuedOrCPNKs0vRf5DTXY3v+EM0D/ooOi/9+J//AImszW9A0zS7ET2HijTtWk8wKYLaOVWAP8WWUDA/rWkPhh4nfi3i0y4f+5DqsDMfoN1crdWtxYXktreQSW9xCxSWKRcMjDqCKVCTqS92tzW6aDlZdCKiiivRICiiigC3peoNpWpw3sdta3TREkQ3kIlibIx8ynr1rpP+Fi3H/Qs+Fv8AwUL/AI1yFFYVMPTqO8kO9jQ1rWH1y/F1JZWFkQgQRWFuIY+O+0d+etZ9FFaxioLlRIUUUVQBSbF/ur+VLRQA0xof4V/KgIo6DH0p1FGgCbQKWiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACuo+G9nHefEHTGuB/o9mzXs2egSJS/wDMCuXrr/B/+geFPFusdHSySwhb0ed8HH/AVNcmMk1QaXXT79Co7nL314+o6ldX0xJkupnnYn1Zif61BSAYUD0pa6ox5UkiQooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRSE4BPoM0AdZf20Gn/CfRi0Mf2zVdRnufNKDf5MaiNQD1wWJ49q5Suv+If+jSeHdNTiKz0K1wv+1IDIx/EtXNaZ/Z39pQ/219p+xZPmi02+aeONu7jrXFhZP2PtHrdtlyWpVrofBXhlPFPiEWt3cmz0+CMz3t0AP3UY44zxksQB9ahXSYPEXiqPTfB9pdhLjAijvJVZlwMuzMoACjr7Cus8UaZbeA/h/b6fp2pRahdeIpluZ7mBCqi3h+6i55KmQ5z3xWWJxVkqVN2nLby8wjHq9jhtb0yTRPEGoaVMdz2Vy8BYjG7acA/iMGqNdf8AFYBfihrLcDzJI5PqWiQ/1rkK7MPNzoxm92kS1ZhRRRWwgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACjIoowKACiiigAooooAKKKKACkIB60tFAHV+FdAsbS1XxZ4rBj0a1lxbW4O2TUp1ORGnfYD95uw4qpcWPiTxrqupa4ml3Ny0rvc3E0cREUY6/eOBgAYH0qzp/xH8SaZpNrp1tcWrQWaGO3M9nHK8S5ztDMM4rP1nxf4i8QRiPWNZvLqEdIWk2xj/gC4H6V5kKeK9q5tLtv09LfqaNxtYxQc9KWiivTMwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArrrz/AIlvwj0yD7smr6nNdP7xwrsT/wAeZq5AnCk+ldh8QR9lbw7pI4Fho0G4f7cuZG/9CFcWI96rTh53+5f5lx0TZm+HfDTa3a6lezztb2enwgs6RmRpZn4iiRe7MfyAJqS/8B+JdK8Py6xqemtaW0O3zElcCVQxwGMf3gueMn1rrvhxZyah4WgjsnVTaeI7e91Fy23yLeOMkSfTIb8cVzcHjVrHxhrepi0i1Ky1V5Ultbpm2yRGTenI5GMA1yfWMTOtONKz5en6eV9yuWNk2c1c2lzY3HkXsElvMFVjHKpVgCMg4PqDmul8Voq+DfBRZFEzadMWIGCV89tuf1rY1i50f4jtba3qmvWWhanFF5GoxTRPiQKTskhCg5O07dvsK5vxlrVprWsRLpKyR6Xp1tHZWSyjDGNByxHYsxLfjWtOtOvUheNnG9+y6b9RONkzAooor0zMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKa/+rb/dNOo60nsB7Rr/AIP0fU9Usjr+oC2vdW0y0tdGiRx8siwDMkg7KWAQZ9TXN2ei6N4L8P6ha+PY1Or6rAYobWALLNYKASJW5+Us4UAA5xXn9xc3F3Ksl1PLPIqqivI5ZgqjCjJ7Dt6VGSSxZiSx5LE5J/GvIpYCtGCpzqaabeXbsu5q5rsb/g3XoNB1G6N/aTXMF9ZSWUotpQkqCTAJRjxnjH0NdD8bNsXjO00+CHyILHSreKGEHOxcE4rl/CFgup+NtGsXGVnvI1Ye27J/lXS/Gy5Fz8WNRwf9TDDEfYhM/wBampGLzSCW/K2/wSBfwzp73xH4OuPH1tbxW1rqh1owW+p31wAY7aMxKgSInoQcEv7YryG8txZ6hc2quJBBM8QdTkMFYjOfwqHGeOx60cDpwK7MLg1hnpJvTqRKXMFFFFdxIUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAjDKke1dH441ez17xIuoae7tHJZ26sroVMbpEFZeeoBHWsbTdPn1bUobG08oTTttTzpVjTpnlmIA6V0x8C2llzr3jHQbIDqlvM13J+SDH61x1qlGFVSm9UvXcpJtHJq7oGCO6hxhgrEBh6HHUfWmcL1IH1NdcB8PdN+9Lr2vSD+6iWUR/H5mo/4TPSLL/kDeCdGhI6SXrSXT/wDjxA/SksRJ/wAOm362X56/gHL3ZyG5OzKfxp1dXN8SvEElvJBEumWsUiFGS302FOCMH+HNcn06VvSlVl/Ejb53E7LZhRRRWwgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoHJAHJPQetFaOia/qPhy/a90ecW9yUMfmGNXIB9NwOD7jmom5KLcFdgSWPhfX9SP+gaHqNwPWO1Yj88Vsp8L/ABaV3XGmLZL63t1FD/6E1ZmoeNPEuq/8hDXdQnH903LAfkCBWLIzStmUs59XYt/Oua2Ll1ivk3+qK909S+H3gSbTfiJo11ea1obyQzFha298JpXIU8AKMfr2qh4r0nw3q3jDVdSvfHVnE1zdO3lQWM0zIAcBScAZGMVxnh/XLvw1rlvq2mCMXVvuCeYuV+ZSp4+hrP3E5JJJYkknuTXIsFXeKdZ1PspaJd2+tyuZctrGjrdnpVjdRx6Jq76rEyZeVrVoNrZ6AEnPHes2jNFepCLjGzdyAoooqxBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABjPWgYHTj6UUUAKOOlJRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUV0baVZx/C2PV3iP2+fWWtkk3HiJYdxXHTqQc+1c5WVOoqidujsNqwUV2WqeDItM+EuleJZjIt7f3pUIW+XyCp2fL6kqTn0NcbU0a8K6bh0bX3A00wooorcQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUV0C+ELpvh23i3zQIFvhaCHbyRj7+fTdgYrOpVhTtzu13Zeo0mzn6KKK0EFFFFABRRRQAUUUUAFFFITgEnoBmgBaK6yL4ca3NbK0U2mNdvD56aet+jXDpt3cIO+OcZzXJ1lTrU6jag72HZoKKKK1EFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAE9jY3Wp6hBY6fC091cuI4Yl6sx6CvQLjwf4Rvb6Pwtot/cf8JNFAA1y0vmWlzdAEvAOBj0DDjPFZHw8c2j+ItUhH+lafos8lsR1V2IQsPcBjUPwztHm+JGkycrFZy/a55D0SOMFmJP4frXk4qpOUpyjKypr73vr5GkUrLzOWZWVirgqwOCD2PpSVLdzi6vri4HAmme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Here mid is 2 so we can take 2 elements from array 1 and rest element from array 2. Which is 3 here.

![Diagram, schematic

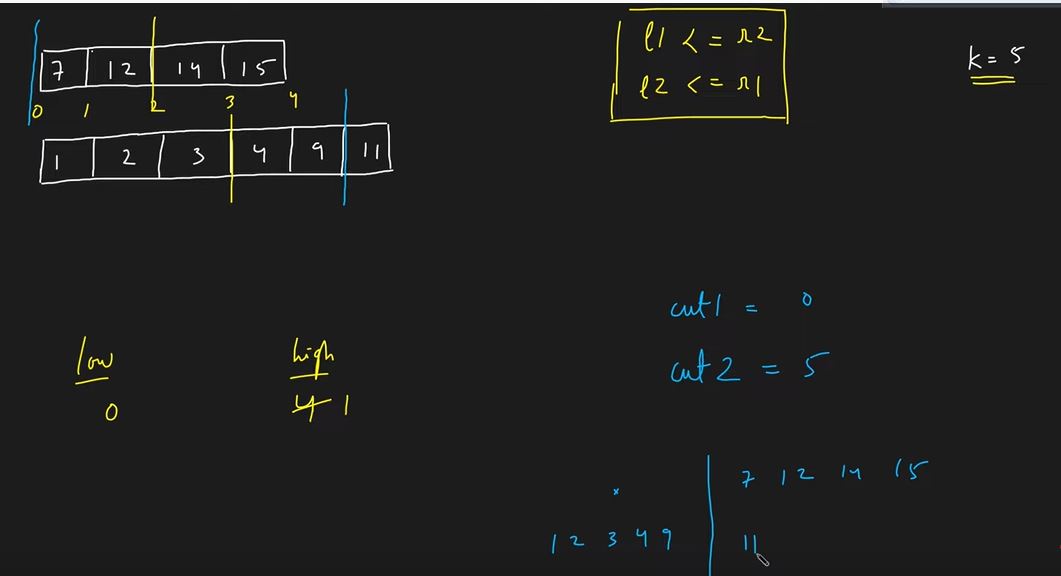
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G22/7BVj/6IWuRrmwP+7Q9CpfEFFFFdhIUUUUAFFFFIQUUUVRQUUUUAFFFFIQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALRSUUALnFFJRQAtFJRQAtFJRQAtFJRQAtFJRQAtFJRQAtFJRQBvaD4y1rw/A1paXCXOnyH95p96vnW8n/AD0+oxWpI3gbxGjbjdeE75lIIVDdWROOv99B+eK42myf6px22nP5VyTwsG+aHuvuv8tilK2jPSvil4U1capDq9raNe6amnWsRu7X94gKwqMsByoPUZHINebhgehzXe+Ndd1Pw948t7nR7+eynj0uxBaJyA3+jrwR0I9jVUeL9E19gvjDw5b+Y/D6lpA+zzg/3in3H+mBmuPB1K9LDw5o8ytut/uKkk3ocZkEkAjI6ilr0RdF0e98E6va6dexalbaXCdQtdVFqbd4nLbWtps9Sw5UAnBFedZrvoYiNa9laxLjYWikoroJFopKKAFopKKAFopKKAFopKKAFopKKAFoppOOpxS0ALRSUUALRSUUALRSUUALRSUhJwcUAOorZ8S6FHoTaT5Vw832/TIb1t6gbGfOVGOoGOtVtI0S41oX/2WSNPsNnJeSeYT8yJjIGO/NZKrBw576DtrYz6KSitRC0UlFAC0UlFAC0UlFABRTaKAHUU2igB1WdN0271fUYrHToTPczEhIwQM4BJ6+wNVK63wB/ol5q2sNjZpmlXEgJ/vuPLT9WrDEVHSpOa3HFXZydLTRwoHoBRW/QQ6im0UAOoptFADqSkq7pGpf2PqsF+LW3uzASyxXSb4ycYBI74PP4VMm0m0BTBB6c0tdp49nefSdAbV4oV16WF57owwrFthY5hV1UAbsZPTOCK4msqFX20Oa1ipKzHUU2ityR1FNooAv6Pa2V7qsMOq6gNOszky3JjMhUAZwFHUnoO2etdA+r+BLQ+VbeE76/jHH2i91IxyN7hUGF+nNcjW14T1228OeI7fUr7T0v4ogR5bEAoT0dc8bh2yMVyYmk5Rc9XZbJ2Kja5o+NdB0zSLPSb/TIruwfU42lbS72QPLAoxtfcMHa3bcAeK5Suy8ZaA02np4wttVuL+z1Gbb/xMUMdyG9OeHUdNy8VxlLBz56KvK7/AK0+QSVmOoptFdhI6im0UAOpr/dIHoaKfAhluoY16vIqj8SBUydotgdZ8Uf+ShXSf887a1j+mIErJ0G+0Ow8+bWtIl1WYY+zwG48qHPcyY+Y9sAEVofE2US/E3XCvRLnyx/wFFX+lcuOtcmHpqeFhF9kXJ+8ze13xdqevQR2cvk2WnQHMOn2UflQR++0fePucmsKk7n60V006cKceWCsiW29y9eaRdWOmadfzhPs+pI7wFWycI21gR2OapojyyLHEjO7naqqMlj6ADrXa3OmX+u/C3QH0izmvm0+6uorhbZDI0IdlZdyjkA881f+Hfh640DxDZ+IfE1pNYwQzpFZQ3CFJLqdztXap5wuSSfauF41QoynLWSbVur10L5dTzojBIIwQcEHtRWn4nhFv4u1iFekd9MvH++ayq74S54qXch6MdRTaKsQ6im0UAOoptFADqdFE80yRQqXkkYIij+Ik4AqOrmkX/8AZWtWWoeUJfstwk3lk43bWBx+lTNyUW47jW52F/qlt8PpDpGgQ29xrkYA1DVJ4ll8p+pihDAgBehbqTWLdrq/ivT9T8S6jdRyHTxBDKWjCNJvJCgBQBkdTmtLUNO8Jazqdxqsfit7GK6laaW1ubJ3njLHJAK/K3XrxWjqd5oy/CC9tPDlvcJbDV4Ea5uiPNuX2sxYgcKAAABXjRqqnycqbm2rtrvvv+hrbvseeUUlJXtmI6im0UAOoptFADqTsfpSUUnsB1/xA+94Z/7F+0/9mo+H/wA03iGEfek0G7Cj1woP8hVXxlqFrqC+Hns7hJfJ0W3glVTzE6bgVb37/Q1Y+GTg+Ora2Y4F7BcWnPcyRMB+uK8uUWsC/K/5ml1znJg5ApabsaP5H4ZflP1HFFeotVczHUU2imA6im0UAOoptFACUUlFAC0UlFAC11Vq39n/AAp1GUcSatqUVrn1jiG9h+ZWuUrWvdaW68L6ZpCQtGbKeaZ5N3EhkxjjtgDFc9eDnyrpdX+RUXYyqKSiugkWikooAWikooAWuh8Ey6HB4ljn8SybLaFDJCHjLxvMPuiQDnZ3OOuMVztGazq0/awcL2v2GnZ3O11LSNM1bU59S1Px7pk09y5kkcW05Yk+gx0HQDsKxNZsNBsrVP7I1yfU7ovh1NkYYwuOoYnJOe2Kxc0ZrGnQnC3vuy6WQ3K/QWikorqJFopKKAFrZ0PxD/YUcph0nTru6dgY7m8hMrQ8dFUnb+YrForOpTjUjyy2DY0dY13U9fvftesXb3U2NqluFRf7qqOFHsKz6SiqjGMFyxVkAtFJRVALRSUUALWt4UtvtvjTRbY8iW/hU59N4rIro/h6u/4j6Fnot2rH8AT/AErDEO1GT8mNblLxTdfbfGGsXXXzb+dv/HzWWKfdSede3EhPLzSMfxY1FV0ko04pdkD3Hev1opuaK0EWbS/vNOn87T7ue0l6b4JSh/MGtLRtRvNQ8ZaPNqF5PdSC+h+eeQuR849axM1NZ3BtL+2uVPMEySD/AICwP9Kwq04uLaWtikzU8X8eN9cz/wBBCf8A9DNY1dH8QLcQePtXZf8AV3M/2mI9mSRQ4I/Oubow7vRi/JBLcWikorckWikooAWikooAWikooAd2rqI23fCGUJzs11S/sDCdv8jXK5rotDvLf/hEPEmm3cqRmSKG6tw7Y3SxyYwPUlWNcuKTtGS6NfmWjnqKSiuogWikooAWikooAWikooAUn5qs6ff3Gl6jbX9lJ5dzbSrLE+M7WHIOD1qrRSaTVmBLNM9xcSTSEF5HLsQMck5PH1NR0lFNaKwC0UlFAC0UlFAC0UlFAG7/AGrpH/Ph/wCQU/xo/tXSP+fD/wAgp/jXPZozXH9Tp93959J/rJjP5Yf+AI6H+1dI/wCfD/yCn+NH9q6R/wA+H/kFP8a57NLmj6nT7v7w/wBZMZ/LD/wBHQf2rpH/AD4f+QU/xo/tXSP+fD/yCn+Nc/mkzR9Tp9394f6yYz+WH/gCOh/tXSP+fD/yCn+NH9q6R/z4f+QU/wAa57NGaPqdPu/vD/WTGfyw/wDAEdD/AGrpH/Ph/wCQU/xo/tXSP+fD/wAgp/jXPZozR9Tp9394f6yYz+WH/gCOh/tXSP8Anw/8gp/jR/aukf8APh/5BT/GuezRmj6nT7v7w/1kxn8sP/AEdD/aukf8+H/kFP8AGj+1dI/58P8AyCn+Nc9mjNH1On3f3h/rJjP5Yf8AgCOh/tXSP+fD/wAgp/jR/aukf8+H/kFP8a57NGaPqdPu/vD/AFkxn8sP/AEdD/aukf8APh/5BT/Gj+1dI/58P/IKf41z2aM0fU6fd/eH+smM/lh/4Ajof7V0j/nw/wDIKf40f2rpH/Ph/wCQU/xrns0Zo+p0+7+8P9ZMZ/LD/wAAR0P9q6R/z4f+QU/xo/tXSP8Anw/8gp/jXPZozR9Tp9394f6yYz+WH/gCOh/tXSP+fD/yCn+NH9q6R/z4f+QU/wAa57NGaPqdPu/vD/WTGfyw/wDAEdD/AGrpH/Ph/wCQU/xo/tXSP+fD/wAgp/jXPZozR9Tp9394f6yYz+WH/gCOh/tXSP8Anw/8gp/jR/aukf8APh/5BT/GuezRmj6nT7v7w/1kxn8sP/AEdpo3iPwzZ+d/aGj+fv27P9FibbjOep9xXYeDPFXhKfxhYpaaF5M3zsr/AGOJcYQnqDmvG810ngBtvjO3f+5b3DflE1OrFUsPJR6JnjYjEzxVd1qiSbtsrLRW2OjHjHwUxJ/4R7qT/wAuMP8A8VS/8Jh4K/6F3/yRh/8Aiq82Q/LS5rqWxyHpH/CYeCv+hd/8kYf/AIqj/hMPBX/Qu/8AkjD/APFV5vmjNMD0j/hMPBX/AELv/kjD/wDFUf8ACYeCv+hd/wDJGH/4qvN80ZoA9Jfxp4NkbdJoDOcAZazhPA6D71c9qetaHc6jLNZab5MLY2p5CLjgA8A461y+aM0WsBu/2npf/Pl/5CX/ABo/tPS/+fL/AMhL/jWFmjNAG7/ael/8+X/kJf8AGj+09L/58v8AyEv+NYWaM0Abv9p6X/z5f+Ql/wAaP7T0v/ny/wDIS/41hZozQBu/2npf/Pl/5CX/ABo/tPS/+fL/AMhL/jWFmjNAG7/ael/8+X/kJf8AGj+09L/58v8AyEv+NYWaM0Abv9p6X/z5f+Ql/wAaP7T0v/ny/wDIS/41hZozQBu/2npf/Pl/5CX/ABo/tPS/+fL/AMhL/jWFmjNAG7/ael/8+X/kJf8AGj+09L/58v8AyEv+NYWaM0Abv9p6X/z5f+Ql/wAaP7T0v/ny/wDIS/41hZozQBu/2npf/Pl/5CX/ABo/tPS/+fL/AMhL/jWFmjNAG7/ael/8+X/kJf8AGj+09L/58v8AyEv+NYWaM0Abv9p6X/z5f+Ql/wAaP7T0v/ny/wDIS/41hZozQBu/2npf/Pl/5CX/ABo/tPS/+fL/AMhL/jWFmjNAG7/ael/8+X/kJf8AGj+09L/58v8AyEv+NYWaM0AFFFFABRRRQAlLRRTAKKKKACiiikAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAV0PgX/kal/wCvS5/9FNRRXPiv4MvQqO5zifcFOoordbEhRRRVAFFFFABRRRSAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD/2Q==)

Here the condition of l1<=r2 false but l2<=r1 true.

Here high will become high=mid-1.

High=1 and mid =0+1/2 which is 0.

Cut 1 =0 element and cut 2 will take rest 5 element from array2.



Here l2<=r1 not hence this also false.

Hence here low=mid+1.

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM4MwAAkpIAAgAAAAM4MwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Here both l1<=r2 and l2<=r1 both satisfied and hence here either 7 or 4 max is the kth largest element.

A picture containing text, clipart

Description automatically generated

Here this is time complexity. We do binary search on min length array.

1 more condition is:

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3NgAAkpIAAgAAAAM3NgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM2NgAAkpIAAgAAAAM2NgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Consider k=1.

Then 7 12 14 15 and 1 2 3 9 11. Here max (0,1-5) and min (1,4).

Here we did k-m as in consider array 1 and array 2 of size 4 and 5. See anything less than 5 means it will be that element in only 1 array not both. In min(k,n) see arra1=4 and array2 =6 here 6,4 means array 1 high max here.