<https://www.youtube.com/watch?v=aXJ-p3Qa4TY>

can sort to find directly nlogn.

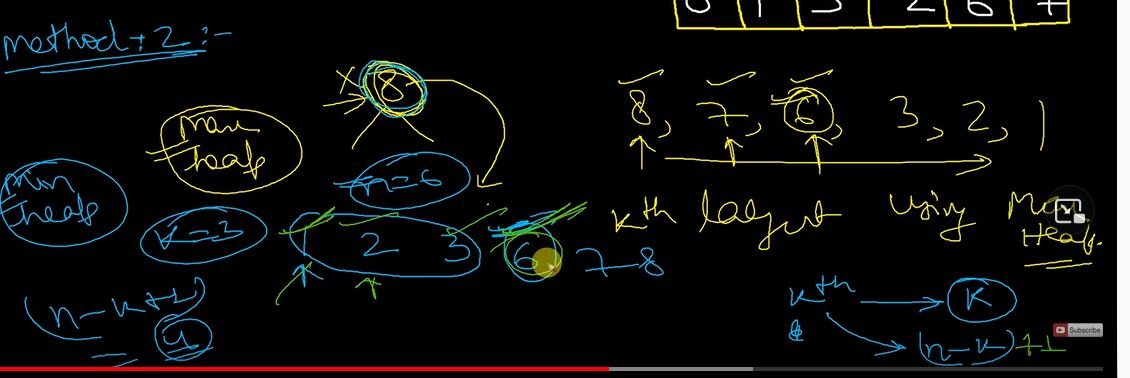
Another will be heap. In or max heap.

![A screenshot of a video game

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMzNgAAkpIAAgAAAAMzNgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Consider k is 3.

Here max heap take 3 times will give kth element max.



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Description automatically 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RRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVq+Gtaj8P63FqUumWuptCCY4bsMYw/wDCxAIzg84PFZVFTOCnFxlsxp2dzp/FvxD8ReM52bWLzEDNu+y26+XDn1Kj7x4HLZNYml6tqGi3y3mkXs9lcqColgkKNg9Rkdqp0qKXcKoJLHAA71EKNKnD2cYpR7dAu27nSL4j8XeHdWlv5b28t7zVIVmla6G/7VG3KsyuCGHcEj6VtaR8X9bs9Rhu9ZtbHWHt1KQPNAsUkKkEFFeMD5SCQVYMvtWp8a4YDJoEluATZ2raTM5GGeW2KhifbDjH4jtXllcVGnQxlFVJ01d/f233LblB2TOx1nx7DdWd3aeHPDmm+Hor5PLuntN7yypnJTcx+VCcEhQOgGccVyMcrwyLJE7I6nIZTgg/WvS9c8PeH5LLUfD9hpv2XWNC0uK++3LK3+m/Ijzq6nIGBJlSMY24NcBpGh6pr941rothcX1wsbSNFBGXYKOpwK1w0qPs24qy8/wd9egpXvqaF3478V39mbS98RalNbsMGN7pyCPzqlZaLPfaHqeqRyRrDpvleajE7m8xtox+I5rOZSjFWBVgcEEdK6rw/wD8k58X/wDbl/6NNayjGjC9NJar8WkK7e5ylFdAvgPxQ2gPrQ0S6GnJF5zTsoXEf9/BOdvvjFc/WsakJ35WnYTTQUUUVYgooooAKKKKACiiigAooooAKKKKACiiigAooooA2vDfiN/DN1Ne2VnBLqGzFrdTAt9kf/noq9C2OhOcdetXNX8T/bfAeg6BDJLixluZ7hGXCtI7/KwPf5c/TJ9a5mispUYSmptarX8Gv1HdnbtqGjeNdLtF8R6v/ZOt2EYg+3TwPLFewj7m8oCwkUfLnBDADJBHN/w/N4d8D3cupDxVHrStE0b6XZ2Unl3ikf6uVpVChM4OcMeOMHFec10Wk+A/Euu6al/pWltcWshIWQSxrkg4PBYGuarQpxg4ynaD6aW9LtX/AB06FKTve2psaprfgjxNqVxqusW+v2N/dSGSdbWSKeNmPXbv2lR2A54xzU/h3XfAnhbXrfWbBfEF5PbbtsFxFAiSblKkFgxK8HqBkVmf8Ks8Z/8AQEf/AL/xf/FUf8Ks8Z/9AR/+/wDF/wDFVk44V03TdX3bWtzdB3le9jXufHnhXWLCXQ77wodJ0TzjcW50qcm4imxt3N5h2yAjjHGO1XPDF34Xt9E8U2/hSDVpNRk0Scm6v2jXbGGTeixpnOVySxPAB4rnP+FWeM/+gI//AH/i/wDiq6j4d/D3xJp3jO3/ALa0t7bTrqGa0uZ/tEeYkljZCwwx5GawrLC0qMnCei1tzXvbXv1/EqPM5ao2viDdeFLK10fRNY1F5INMtLZpdM0uJjLNMIVGXlfCxrt4AALfMxPNclD42sPFvnaF4yY6Xo8kkbafLZxl10rYpUKE6shU4b+InDc9Km8Z+BfFmteM9W1OPSUitZ7pzFJJdQxr5YOFJLOMfKB1rEHw31c4B1DQA39065a5Ht9+pw9LDRoxUql5b3utHu7f8EcnJvRGj8K9UudF+I5l0i9nNnbxXM7qPlFxFHG7gMO27aOe2ayvGtkjSWfiDT57mbT9cRpwbmTzHinDYmiZsDcVYgg4GVZTXXeEfhzr1lpniKeJtOnln0trSAw6lC6EySIGyVbAwm7r3xXXaX8NNW0b4dHTrLSbLW9WW4ivl+3So1tA7oVfau4Biqhcl8qSeAcVhVzDCUcS6imru0d1+Po2hqnNxtY8J0XSrvW9as9OsFzPdTJEhA+6WYDccdAM5zXceLvDninxZ4mEOh6Dq93punwizsZHt3/eRRkjzCzd3bc3/AgO1dT4b8XeL/C/iy+0bWIdLtUisJr6RLC2gGVSF2Xa0Xy5JAznOMdq8x1Hxx4v1SHfqXiDVJ4ZHJAa5cIWHoAccZ6DpXYp4mtX5oqKSWju3v8AJdu5NoqNiDXfBniLwzbRz69pM9jFI/lo0oAy2M46+ldX8AP+S5+H/wDt5/8ASaWvO5ZZJpWkmdpHY5ZmOST6k16J+z//AMlz8P8A/bz/AOk0terDmUffd35af5mTt0PtWiiiqEfnHRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFdL4Pu9I0aS61zVGS4vbAKdO090JWeds4dzjGyPG4j+I7R0zXNUVFSCnHlY07Hq2k6jaS/CK78TeIrWDV9QsNYmjs47wZjlkuFRnZwPvY2swGRz+VYM2l2HjjS5NR8NWUNhrlom680i34S5jAJ863UknIA+aPn+8O4HMpr1/H4Zl0BZF/s+W6W7aMqM+YqlQQevQ9PpVSyvbnTr6G8sJ5Le5gcSRSxttZGByCD2rjp4WUHKSet212t2sU5XPWYopNU8ZQ+MIFY2OsaHdyXD8FYZ0tXjlR2HGcqG5xxIOKxPBttq0/geK38M+Ymo33iK3iZ4VO4qkZdckfwqx3HtxntVE/FzxUtm1vbyafbJMxe68nToV+1nGMyrt2tx7fWql58SvElxpsunWlzBpVhMCJLXTLZLZHyOd2wAnPue9cqw+KceVqPS2reiva+mv/AAOhfNE2/HPgi9ufH1/fQmxs9G1C8meLUmula1QgksGdc7Wzk7Pvc4GavaFaeFdG8EeJClxP4nUPZi4WNGtLfJlO0K5+duck/KuR09a4DQvFGr+HJJTpN2Y45l2zQSIskUo/2o2BVsdsjiu107xXq3ivwN4l02+ltmeFLe9iggtYoNyxyjzG+RRuIUg89s069LEKEYSd4px1Ts915N/c0KLjfQh+Kvi/VbnxRqugRPHZ6ZbXBh+z2q7POCYVPMPV8AAAHgY4Arzqup+JgI+J3iDP/P8ASfzrlq7sHThToQUFbRfkRJty1CiiiuokKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACuv0G98AQ6PEniPR9autQDN5ktrdokZGeMAjPSuQorOrTVSNm2vR2GnY9UtvF/wrsYgtp4IvDJgAyXUqzkj6M2AffFSv8UfDtr82l6XfQEcKlrb2VptHoJFhZsfr715NRXF/ZtC95Nv1k3+ZftJdD1/TPjFpi6kf7Qt/EaW1zG1vMy62X8lG/jSMIoDDqCMV0t54v0LxR4fPh7w75fiK/j2MINRu7iB76NS21EkLKXlXdypxuB43Yr57pVYqwZSQQcgg9KwqZRh5TU43TW2rtf+uzRSqy2PVPCPiSGHXNUs4/Buj6Y1vpd67xyQTPKCsLHY5kcnB6EYHFcZrvjjWfEOkw6XetaRWEExmjtrS0jgRXIxnCKO3FWB8R/ETaXLZXc8N60kDWy3d1AslzFGw2sqyn5sFeOScdsVytdNDCqNR1JxV9La3/MmUrqyCvR/2f8A/kufh/8A7ef/AEmlrzivR/2f/wDkufh//t5/9Jpa7zM+1aKKKAPzjooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKK3dE0WDUtC8QXs7yLJptnHPEEIwzNMifN7YY/jisKpU1JtLoOwUUUVQgooooAKKKtWmmXt/bXdxZ20k0VlGJbhkGfKTcF3H2yQPxpNpasCrRRRTAKKKKACiiigAooooAKK0tD0K616++z2gCquDJK33Yx6n/CvRLHwDolrGBcxSXkmOWkcgZ9gMVw4nH0MM+Wb17IuMJS2PKaK9XvvAOiXUJFtFJZydmjcsPxBzXneu6FdaBffZ7oBlYZjlX7sg9v8KMNjqOJdoPXswlBx3Myiiiu4gKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArV8N+IbzwvrsGqWAieSIMrRTJvjlRhhkde6kHpWVRUyjGcXGSumGxa1PUbnV9UudQv5TNc3UrSyuf4mY5NVaKKaSSsgCiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXo/7P8A/wAlz8P/APbz/wCk0tecV6P+z/8A8lz8P/8Abz/6TS0AfatFFFAH5x0UUUAFFFFABRRRQAUUUUAFKOh+lFFACDpTj1/CiimtwGmuk8Uf8gXw1/2Df/ar0UVhU/iQ+f5D6HN0UUVsIKKKKACiiigDrvCX/In+NP8AsGQ/+lUVcjRRXPS/iVPVfki5bIKO1FFdKICiiikAV3HgL/kU/HX/AGBl/wDSiOiiuXF/wvnH/wBKRcNzhz94/WiiiuogKKKKACiiigAooooA9I+Gn/IKv/8Aruv/AKCa7WiiviMx/wB6n/XQ7KfwoSuM+Jf/ACBbP/r4P/oNFFPLP96j/XQKnws82ooor7Y4wooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK9H/Z//wCS5+H/APt5/wDSaWiigD7VooooA//Z)

N for putting in heap and then logn for pop each element.

![Text

Description automatically 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2Qf3olDqfoykg/hXKA4p4mkUYWRlHoDio5a62kn6r/ACa/Ieh0l18OvE1jYzXV9YR2qQxmR0nu4UkCgZJ2F934YzXMUpYtyTknqTSVrBTS99p+it+rE7dArqLTwvoosYLjWvF2n2bToHW3toZLqRAf7+0BVPtuJrl6KJxlLZ2+79QR2S+I/DPh64D+FdBe8u4T+61HWJRJhv7626gID3AYvjiuVvr+61O+mvdQuJLm5ncvLNKxZnY9yar10Gi+DNT1izOoyGHTdJQ4k1K/fyoAfRT1dv8AZQMfas+WnRXNJ/N7/wBeSHqzn6+u/wBmbTr3TfhjepqFpNatNqjzRrNGULoYYcMAexxwa+d/+Eg0Pwqoj8IWv9oagvXWdRiB2H1ggOVT2Z9zegWvob9ma/u9T+HerXmo3M11cy61K0k0zl2Y+TD1J61UJym72svPf7ugnZHsdFFFaiPzjooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoopyIZJFUdWOBQAiqWYBRkk4AHet1fCd1DEJdXurTSlIB2XUv73H/XNct+YFXdRnXwXdSaZpaK2px8XGoOo3If7sQ/hH+194+1cvJK88rSTO0kjkszsclj6k1u4wp6S1ZzKU6yvB2Xfq/8AI3TB4Vsjl7zUNTYcBIYhApPruYk4/Ck/tXw9F8sPh55R/euL1i3/AI6AMVhKu5gPU4FdZJ4Nh0jR4dV166c283EcVkoZifctgD8jVQc5v3Ir+vUzqKnTX7yTd/N/pYof2zof/Qsw/wDgZLThq+iMQF8MQknoBeSk0z+2NHs0/wCJZoSSSZ/1uoTGbH0VQq/nmkPjDWFz9klhsh2FpbpFj8QM/rVc9t2vlFf8ASpuWsYv5yf6Nl6FdPvZBEPB96CeR9knk3H67lIxViTQdPaM/aPDviKxQf8ALZQJsfVSq/zrn5vEetXEeyfVr2Rf7rTtj+dV49W1CGQPFfXKOvRlmYEfrR7Wn1V/kg9hW6O3zk/zLuuaD/ZMdvcQXIubS53eXIYzG4K4yrIehGR6isetuLxfra/LPfNeR55jvFEyn8GBrQ02zsPGFwbK3sY9M1NkZ45IGPkSYGSGQ5K8d1P4VDhCb/d/cWqlSlH98r+a/VafgcpRTpF2SMh6qcGm1znWFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRmiigBcntx9KTP+cUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGt4f8S6l4bupJdNlUxzp5dxbTIJIbhP7siHhh/Ltitn+3vBl9/wAhHwjPZO33n0rUmUZPU7JVf8Bn2rkKKxlRhJ82z8m1+W/zHdnXY+HIOd/ihh/d224z+OTj8jTz4t0PSLS5XwloE1neXMTQG+vrz7RJFGw2sI1CqqlgSCxBOCcYrjqKn6vF/E2/mPmCiiiugkKKKKACiiigApVUswVRkk4ApKKAOtHw8v7ZN2u6po2ijGSl5fo0gH/XOPc+fbFB0vwNYAG88Q6nqbd007TxEuf9+Vgf/Ha5KisPZ1H8U/u0/wA3+JV12Ov/AOEx0vR12+EPD1vaSjpf6kReXA91DKI0/BCfesHWfEGreIbpbjW9QuL6VF2oZnJCD0UdFHsKzqKqNGEXzJa99394rsK+sv2WP+SXaj/2GZf/AETDXybX1l+yx/yS7Uf+wzL/AOiYa1Ee1UUUUAf/2Q==)

Method 3 quick select.

O(n).

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