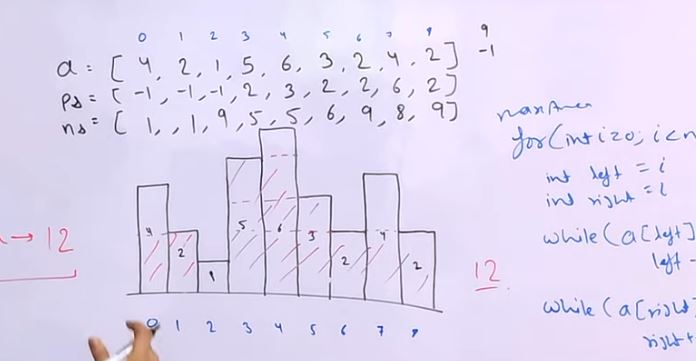
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ot+wHItpP/AEE0EiaE27w1pTk5LWcZOfpV7NZ+gjb4a0odhZxf+gitCkMjmlMS5SMyyHhV9T7+1Nto/sqtLK3mTEF5H9cDOB7CpqTaHR0JxuUqDjpkYpsDF8Fqw8G6e7dZt8p/4E5NbwYrnBP4Vn6LYHStFs7BpRKbaLZvAxnmr9AEbq8zBWYiMHJH96pMgDJ4AooIypBpiMG7lkm8XaJuBSHE7Ih6kBfvGt8cisO5Ik8daYmeILGWRvxIArcz0+lIdx1LikzmopAblvKXiIH943r/ALIpgYfikvd+Hb2WNilvbhWTH/LRt68/QV0KnKqf9kfyrM8ToB4R1NUAAW3yAO2CK0YDutoW/vRqf0FSBneJNJn17w5c6baXa2cswXEzJuAwc9KXRdN1DTrYpqutzatIQAC0CRKmPQL/AFrUFDMEVnchUUZZvQUDEHBB9DmsLwepHhyNz1lnlk/NzWpZ+c9hJcXPDS75FT+4uOB+XNUfCS48K2PGMxlvzY0xGvilFLRTEFIelLRQBRtjnXdVb2gX/wAdNXSuSWwN2MZxyR6VCluyahcXAI2TqmR33L/9apxwQep5OB3qTeWrVijKd+sWkQ/5Yq0z+2RgVerE0zVrRFlmvp/Ku5mJkR0YFAOAvTtWvDPFcRCSBxIhOARQiqsXGyJMGinU2qMAooooAKKKKACiiigAooooAKKKKAHUUUUFBSikooAWijNFAGGvNSioVqUUjIdThTc0q0APApQKSnCmA7FLj2oAp1ADKKU9aSgBw6UtIOlLQAUh4/OoruWeGDda2jXcmcCNZAn4kms/7Trsg40m1i56SXmf5CkBX0A7vEHiWVuv2xE/AJxW8K5uw07xBZ6hqN0RpmL6VZCpdm2EDFaIj1w/8ttMX/tm5ouM06xfEa77nRYzyr6gmfwBNWhDrZHN9Yr9Lcn+tVL3SdWvntml1SBTbTCZNlt3xj1oA2S2WPPemkg96pGDViedSh/8BR/jQsGoA/vb+Jx6C3C/rQhlzt1rBuhv+ImkYP8Aq9OuCfzFaJttS3ZXUo1HobYHFU20S8bWo9T/ALXHnRwtCo+zjGCcmh6iNkEYH0pR7VSWDUwMf2lEf+3YUeRqf/QQgP8A27f/AF6YF0nArJ0sbdd19cdZ4m/NBVjyNUJ4vbU+32c/41Vg0zVLbVLy8W/tm+1BNymA8FRj1pMDaAwKBVDZqp6XFn+MB/xoEWr9riy/79t/jTA0axvFk3k+EdUYdfs5RfqxA/rVsLq4/wCWlifqjCsrxLaazfeGr23iitZXdVISItuJDA8Z+lSwNy0iMVjbxkY2Qov5KKlZc9aoI2sFVLW9pnaMgyMMU4z6rn/jytT9Jz/hTQy6BgdKr6gu7TbxDzutpB/46ajFzqQ+9pin/duBUc91fvDKh0eU7o2X5ZVPUYoEM8My+d4R0eT+9Zp+gx/StQVzPhO+ng8I6bDLpN9uhiMRIQdQxrW/tdUP7ywvox6mAmkBo1DeO8WnXckRxIkEjKfQhSRVYa3Y4+dpk/3oGqG81vTjp92FugWNvIApQjPymgY/w3K8/hXS5pnLyyWqu7MeWJ71qVz3hnUrFPCmkxveQo6WiKys2CDitlb21kPyXUDD1EgpoRPmg9KQEN/q2Vx/ssDTtrf3W/KmBg6eTdeNNYuP4bSKK0U+/wB4/wA63gawdFPl+JvEkOOPtEUv/fSf/Wrcz70kBIvNPAAAC9BUampAaYGf4gXf4a1RT3tH/QZqxpr+ZpFk/wDet0P/AI6Ki1n5tDvx/wBOsv8A6CaTQm3eHdOYcg2yfyqeoy+KrTr9suBbj/URkNMw/iPZf8asGiJFjQIowAc0xjLw7bG4YcYhf8ODWf4ZXb4V03/rgKt6qdui3xHa2k/9BNQeHxjwzpuP+fZP5UdRM0KKKKYgpKWigYyaaG3TfcTRQr6yOF/nVIa9pZYiO7EzDtFGz/yFWJLK0luPtEtrFJNjG913Y/OrCMU4XCj0AxU6mydNLYqJqsU7AJb3bg9zakD9RVsYXt+GMUpdm6k/nTcUJWJlJPZAsiuzKjAsv3h6UtJjByKWqICiiigAooooAKKKKACiiigAooooAdRSUUFC0UlFAC0UmaKAMNTUoNQrUi5oMSQU9aYBUijikMUU8ChVp+KYDc0oPFLijFACUlFFAC5p1MpwoAXNGAetFAoAMUdKWkNAwzRRRQA00lKaYTQAtJRRQAUu4+tJRQAueaNxpKKAH9aMUCloAB0oxQKWgQmKWiigYmAOlAAByOtLRQAMSxySfzoGR0ZvzoooAd5j/wB41HPGt1BJDON6SIUYY7EYp1FICta6dZ2ljDaRW8ZigjEab0DHA9TStp9i/wB+xtj/ANshViimBSbRdOYEC0RAf7hK/wAjUR0DT1x5QuYj/wBM7hh/WtKigRjQeHY7fUri8t9Qvo5LhVV/nB+7061baxv0/wBRq7n/AK6xBqvCloGUQuroP9fZzf70ZU04XWqofnsIZR/0ymx/OrlHWgChcagzW8sVzp11H5kbIcLuHII7VS8Nataw+HrK2u5TbTQp5bJMpU8Hit9SQeDSsocfvFV/94Z/nSAbFcwTj9zNHJ/uuDUw47VRl0bTJzmWyiB/vR5Q/pVc6F5Rzp+q39qeylxIv5GgZa1bnRb8D/n2k/8AQai0Djw3pw/6dk/lVS5tvEX2SWAy2N/HJGUJKmJ8EflUFvq0uiabBbajpF9GkEYQSwgSqwH0pdQOipM0yGZLiCOWLdskUMu5cHB9RT6oQZozRSGgAzRSUUFDqM0lFAC0tJS0AFFFFABRRRQAUUUUAFFFFABRRRQAtFFFBQUUUUAFFFFAGEtSLUS1MtIxJF96lWmKM1ItAx4p1MopgOzRmm0ZoAKKKM0AFOFNzQDQA+ikBpaADNZ8msQLfyWcMdxczwpvkEEe4J6Aknr7Vfrn4rfWtLu72Ow02C9iupzOty9ysewkdHB549q0gkyJNrY1bHVLfUPOWISxTQELLDMm10z049DVrNZ2labLZGe4vZxcXt2Q00iDCgDoq+wrRxUytfQcbtakc88VtA81xIscUY3M7dAKAwdQykFSMgjuKra3bm70HULcDJktnUD320zRpfP0KxkH8Vsn8sUJaXH1sXaKSikUJLIsSF5GCKOrMcAUqMGUMpBVhkEHIIqpqWk2usQR298rPEsokKBsB8dj6is/wjxoMkS7jFDe3EUPtGH4H0q1FOLZDdnY3aSgUVmWOFOFM7Vz2p29xo+pLrS3N7cweeftKKcrDERxhB1A9auMbuxMpWOjzRmmQyxTwJNBIssUi7kdDkMPUU6pasMdRSVyniHWdd0OG5JtJJoDdRvFexgMkcJcblYdQcZpwjzOwpSsjraKVwBIwHIzxikqbDuFFFZHiPVZ9J0+3ktUjaW4uktlaXO1C2eSB16U4x5nYG7K5r0VDaC4S3C3kscswPzNGhUfkampNWYJ3CiisrXdZfSbWIW9v9qvbqUQ2sAON7HufQDqTTSbdkDaSuzVopF3+Wolx5gA3bTkZ74paQwFLSClOQCQpYgZCjv7UAFArDsvEc1x4gXSbzRbuwmeFplaV0ZWUHHY1uirlFx3EpJ7Dh1pwpBSioGLRTWdE++6L/vOB/M07nvQAUBiOhxRRQAZz1pDS0hoAKKSigAozRQaBhS0gooAWlpKWgYUUUUAFGaKKADNGaKKADNGaKKADNGaKKAHUUUUFBRRRQAUUUUAYK1OnaoFqdO1BiSinim5wKcKBjqWm1HNcpCOck+gpNpbjSbJiar3F3Hbrluaha8V1Up37elUb2TPWsZ1Fy3iawpvmszRgvop/unH1qxuFcab2S3lbyqtWmqTu+JDgelcscXZ2Z1Swl1eJ1OaKqWc/mxnPrVjNdsJqSujilFxdmSZxSg1FmnoeaskkzRRRTAKBRRQAhwevIqCKCK2jEVuoSNfuqO1TE000AJRRRQAoODWVpnh+00qQm0nvNhZnETzExqScnA/GtSimpNKyE0mLRSCloGLVa+tri4hUWd69nKpyHVQwI7gg9RViihOwmkypo+nDSNJhsRL53llmLlduSxJPHYc9KvGo+9PFDd3ca0Cmz28V3aTWtyu+GeMxuvqDTqUUgEhTybeOLcX8tAgZupwMZNONJRRcQZrP1yza/0S5tlt0uC68Rs+3nswPYg81fpRTi7O4NXVitpaXUek2i6iwe7WICZgc5arZpBRQ9XcFoLXO+IdM1SfXtI1PR2iZrMtHLFKcAox5I98V0NFOEnF3QpRUlZi/SiiipKCg80UUAYcekS/8J+2qPNO8P2Lain7qEnlR/Ot+mrTqqUnK1xRio7Cg0vVetIBml6CpGcB4q8Mx+J/HdrAPNWOK3DXUhHyhc8Bfc138aLHGiLwqqFA9ABig5PHbvQDxWs6spxUXsiVBJt9x1FJmjNZFC0UmaM0FAaSlpKACiijNAgoozRmgAoozRQAUUUUAFFFFABRRRQAopaQUtAwooooAKKKKAClFJSigYtFFFAzAWpkNQipFoMSwretOBqEVItAyXrWXd7zcEjpitEk44qjeBlO4YrOexcNzJiuT5m0nvUl7IQgJ71l3MxiuN3vVu7fdaox7ivK5+VWPT5b6mZdO+WCrmktpXUAtVvcu3kc1WK4NccpO51RWh0emXAKAd8Vpo9c3piuuCW4rfj7V6+EmnE8zFRtIsinrx0qjdXJgweuaLW/ErBSOTXS6kU7M51TbV0aQNLTN1LmtLmY6ikzRmmAhpppx6U0igBKSlxSYoAKKMUYoABS0UUAFFFFABS5oxRQAuacKbinUALSGjNFACUooxRQAtFFFABS0lLQAUUUUAFFFFAAKcKaKcKAHjpRSA4pc0AFFGaKBhRRRQIKKKKACikooGLQaSigAooooAKWkpaACiiigAooooAKKKKBhRRRQAUtJS0ALRRRQAUUUUAFFFFAGEKkWoxUi0GZItSCoh0qRaTGPzVW9Uun4VZNQ3H+rNZz1iy4fEjlb+ICNz3zTWk3WK7j92ptQ+431qi//HpXjVtGerT1Q1bgO2BU20noKz7b7341rx/6sVyy1OlE9pldtbcLZUVhw9a1rT/V114STU7HJiYpxuN1AEKG61m2VyTfHHQVp3/+rFYdj/x/P9a6MQ/fRGHXus69G3IDTw1RQf6kfSpK9GHwnBP4hwNOpgp46VoZi0lFJTAKSlpKQBRRRQAUUUUAFFFFAC0opKUUDHCigUUAJSikpRQAtFFFABRRRQAUtJS0AFFFFABRRRQACnCminCgAzS5pKKAFpc0gooAdRRRQAUh60tIetACUUUUDCiiigAooooAKWkpRQAUtJSigAooooAKKKKACiiigApaSigBc0ZpKKBi5opKUUALRRRQB//Z)

Question

Brute time complexity is O(n^2)

Next will be stack->use 2 array previous smaller and next smaller



Here at arr[n] =-1 put for making our calculation easier.