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CSE221; Lab 05: Sample IO
 Sample Input:
        20
        802 327 219 415 648 783 250 891 232 822 604 123 138 505 883 224 86 681 51 310
 Sample Output:
       Orginal array:
       802 327 219 415 648 783 250 891 232 822 604 123 138 505 883 224 86 681 51 310
       After heapify:
       891 822 883 681 802 783 505 415 327 648 604 123 138 219 250 224 86 232 51 310
       Before increasing key: (this line is optional)
       891 822 883 681 802 783 505 415 327 648 604 123 138 219 250 224 86 232 51 310
       Increasing key: heapIncreaseKey(A, 9, 892); [heapIncreaseKey(A, 3, 532) is not vaild, arr[3] > 532]
       891 822 883 681 802 783 505 415 892 648 604 123 138 219 250 224 86 232 51 310
       After Increasing key:
       892 891 883 822 802 783 505 415 681 648 604 123 138 219 250 224 86 232 51 310
       The array before inserting the key: (this line is optional)
       892 891 883 822 802 783 505 415 681 648 604 123 138 219 250 224 86 232 51 310
       Inserting the key: maxheapInsert (A, 900);
       892 891 883 822 802 783 505 415 681 648 604 123 138 219 250 224 86 232 51 310 900
       After inserting the key:
       900 892 883 822 891 783 505 415 681 802 604 123 138 219 250 224 86 232 51 310 648
       Extracting the maximum value: 900
       The heap sorted array is:
       51 86 123 138 219 224 232 250 310 415 505 604 648 681 783 802 822 883 891 892 900
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