Priority Queues

The **hard deadline** for this quiz is **Sat 5 Dec 2015 8:59 PM PST (UTC -0800)**.

To specify an array or sequence of values in an answer, you must separate the values by a single space character (with no punctuation and with no leading or trailing whitespace). For example, if the question asks for the first ten powers of two (starting at 1), the only accepted answer is:

1 2 4 8 16 32 64 128 256 512

If you wish to discuss a particular question and answer in the forums, please post the entire question and answer, including the seed (which is used by the course staff to uniquely identify the question) and the explanation (which contains the correct answer).

☐ **In accordance with the Coursera Honor Code, I (Atul Gupta) certify that the answers here are my own work.**

Question 1

(seed = 616734)
Give the sequence of the 13 keys in the array that results after inserting the sequence of 3 keys

18 50 43

into the following maximum-oriented binary heap of size 10:

91 88 42 73 80 25 13 17 19 10

Question 2

(seed = 283925)
Give the sequence of the 7 keys in the array that results after performing 3 successive delete-the-max operations on the following maximum-oriented binary heap of size 10:

99 97 87 90 43 46 62 25 48 42

Question 3

(seed = 964783)
Give the array that results immediately after completing the first pass of heapsort (heap construction) on the following array of 10 keys:

26 69 81 83 66 92 18 51 89 30

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You cannot submit your work until you agree to the Honor Code. Thanks!