9/24/12 Quiz



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Exercises: Mergesort

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).

Question 1

(seed = 103872)Give the array that results immediately after the 7th call to merge()when top-down mergesorting the following array:

YQVLIXOKEHAC

Question 2

Give the array that results immediately after the 7th calls to merge()when bottom-up mergesorting the following array:

WAHPUTYZOF

Question 3

(seed = 414272)

Suppose that you run the Graham scan algorithm on the following set of points:

A (2.0, 5.0)

B (1.0, 2.0)

C (6.0, 6.0)

D (5.0, 9.0)

E (9.0, 8.0) F (7.0, 7.0)

G (4.0, 3.0)

H (0.0, 4.0)

I (8.0, 1.0)

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	s not on the convex hull in the order that they are . To specify a point, use its letter, not its coordiantes.
	i.
In accordance with the Hen	or Code, I certify that my answers here are my own work.