

Today Randomized algorithms; § 5.3.

Next class Elementary graph algorithms; §§ 22.*.

Reminders Newsgroup. Portfolios due soon.

1. List the members of your group below. Underline your name.

2. Consider the operation of the algorithm PERMUTE-WITH-ALL from the textbook (p. 129) on an input array $A = [1, 2, 3]$.
 - (a) List all possible outputs on this input.
 - (b) Determine the number of distinct computational histories on this input.
 - (c) Does the algorithm produce a uniform random permutation? Why?
 - (d) Compute the probability of each output above. [Suggestion: Use distributed computing in your group.]

[additional space for answering the earlier question]