## Shuffled Exams

For this problem, we will be working with Exam and Student objects, both of which have only one attribute: sid, which is a number like any student ID.

PrairieLearn thought it was ready for the final. It had meticulously created two arrays, one of Exams and the other of Students, and ordered both on sid such that the ith Exam in the Exams array has the same sid as the ith Student in the Students array. Note the arrays are not necessarily sorted by sid. However, PrairieLearn crashed, and the Students array was shuffled, but the Exams array somehow remained untouched.

Time is precious, so you must design a $\mathrm{O}(\mathrm{N})$ time algorithm to reorder the Students array appropriately without changing the Exams array!

Hint: Begin by reordering both the Students and Exams arrays such that ith Exam in the Exams array has the same sid as the ith Student in the Students array.

