

Algorithm Analysis Homework 6

Due by 6/14(Thur.)

1. Using Fig. 8.2 (or the example covered in class) as a model, illustrate the operation of COUNTING-SORT on array $A=\{6, 0, 2, 0, 1, 3, 4, 6, 1, 3, 2\}$. (i.e. show the content of content of each array after each four 'for' loop.
2. Using Fig. 8.3 (or the example covered in class) as a model, illustrate operation of RADIX-SORT on the following list of English words: COW, DOG, SEA, RUG, ROW, MOB, BOX, TAB, BAR, EAR, TAR, DIG, BIG, TEA, NOW, FOX. (i.e. show the list of words after each step.)

COW

DOG

SEA

RUG

ROW

MOB

BOX →

TAB

BAR

EAR

TAR

DIG

BIG

TEA

NOW

FOX