```
##################################################
#####          EXERCISE #2 FOR LOOPS        #####
##################################################
#####         MERGE TWO SORTED VECTORS       #####
##################################################

# Write a program to merge two sorted vectors into
# a single sorted vector. Do not use the sort(x)
# function, and try to make your program as
# efficient as possible. That is, try to minimize
# the number of operations required to merge the
# vectors.
```