ANONYMOUS AND LOCAL CLASSES

REMEMBER HOW IN JAVA ALL CODE MUST RESIDE IN SOME CLASS, AND CAN NOT BE FLOATING ABOUT?

THAT'S A GREAT RULE - IT FORCES AN OBJECT-ORIENTED STRUCTURE TO ALL JAVA PROJECTS

BUT SOMETIMES IT CAN BE A BIT OF

OVERKILL - FOR INSTANCE IF THERE IS A LITTLE

LOGIC THAT YOU ONLY WANT TO USE IN

A VERY SPECIFIC CONTEXT AND THEN NOT

RE-USE

ANONYMOUS AND LOCAL CLASSES

ARE MEANT FOR EXACTLY THESE SITUATIONS

ANONYMOUS AND LOCAL CLASSES ARE FOR QUICK-AND-DIRTY LITTLE BITS OF CODE

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BTW, NOTICE HOW THE "NEW" KEYWORD
                                     // Step 1: Create a list of strings
                                     List<String> listOfStrings = new ArrayList<String>();
THEN PASS AN
                                                                                       IS USED TO CREATE AN OBJECT OF THIS
                                     // Step 2: populate listOfStrings with names from a data file
                                                                                       CLASS WITHOUT A NAME
OBJECT OF THIS
                                     // Won't bother with the code for this here
CLASS RIGHT INTO
                                     // Step 3: Sort this list of strings in lexicographical order,
                                                                                                CREATE AND INSTANTIATE A CLASS
THE COLLECTIONS.SOR
                                       but with the added twist that if the name "Donald Trump" appears
                                                                                                THAT IMPLEMENTS THE
                                                                                                COMPARATOR<STRING>INTERFACE
METHOD
                                       public int compare (String s1, String s2)
                                                                                                IN A SINGLE LINE
                                          if (sl.equals("Donald Trump") && !s2.equals("Donald Trump")) {
                                           else if (s2.equals("Donald Trump") && !s1.equals("Donald Trump"))
                                              return -1;
                                          return sl.compareTo(s2);
```

COMPARATOR<STRING>HAS ONLY
ONE MEMBER FUNCTION THAT IT MUST
IMPLEMENT - DO THAT RIGHT HERE ON
THE FLY

WE JUST NEEDED THIS OBJECT ONCE - SO AN ANONYMOUS CLASS WAS PERFECT..

..HAD WE NEEDED IT A FEW TIMES,
BUT STILL ONLY LOCALLY, WE WOULD
SIMPLY GIVE THE CLASS A NAME
AND USE IT AS A LOCAL CLASS