The algorithmic runtime of my solution depends on the size of the posts.xml file (O (n) where n is the number of lines in the posts.xml file). The algorithm extracts Id, PostTypeId and OwnerUserId and stores in the arraylist. The arraylist is then divided into four equal parts and the parts are processed by four threads.

The pieces of code which take the most time to run on large data sets are:

1. The code where the threads are being created and they process the data to find the top 10 users who post the answers and ask the questions. Out of 9.7 seconds this part takes around 6.2 seconds.
2. The code where the data is brought into the arraylist. Out of 9.7 seconds this part takes around 3.4 seconds.
3. Rest of the time is taken to print the results.