Homework #9 Gprof Profiler Due Wednesday, November 24, 2004

Name:

Lab T	ime:
Grade	/10
GPROF	
of the GPR section of the	pose of this homework is to help you become familiar with the output OF profiler. A sample output can be found on the reference materia he class web page. Use this output to answer the following questions t is for a program that implements the QuickSort sorting algorithm
1. In the	e flat profile, what metric is used to order the functions? (1 pt.)
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2. What	does that metric mean? (1 pt.)
3. In the	e call graph, what metric is used to order the functions? (1 pt.)
4. How	does this metric differ from the one in the flat profile? (1 pt.)
	does this explain why the function main is ordered differently in the rofiles? (1 pt.)

6.	In the flat profile, what is the difference between "self ms/call" and "total ms/call"? (1 pt.)
7.	How does this explain the large difference in those times for function \mathtt{main} ? (1 pt.)
8.	How many calls were made to function $Swap$, and what is the percentage of total running time spent in $Swap$? (1 pt.)
	If there were so many calls to $Swap$ and a good percentage of the total running time was spent in $Swap$, why are the entries for "self ms/call" and "total ms/call" zero? (1 pt.)
9.	Approximately how many elements are being sorted in this run? (1 pt.)