**Technical Reports**

Software as a service (Saas) is a cloud-based software delivery model in which software is licensed on a subscription model and is centrally hosted. It is often referred to as “on-demand software” and formerly known as “software plus services” by Microsoft. The cloud provider develops and maintain cloud application software, provides automatic updates and makes software available to customers on the internet on a pay-as-you-go model. Companies of sizes both large and small benefit from the SaaS thanks to the lower initial costs, painless upgrades and updates, instant data updates, customizable use, advanced security, multiple backups and more. Nothing is perfect though, SaaS run their own issues such as software integration issues, security is another concern since sensitive company data and business processes are entrusted to a third-party service provider. Examples of a SaaS consist of Microsoft 365, something both large and small companies use as well as multiple intuitions. The service provides signature Microsoft programs such as Word, Excel, PowerPoint, and more. The cloud-based version expands greatly on the regular Office programs.

ACME Corporation and AJAX Inc developed two different methods for sorting libraries to help other companies with the development processing large data in their systems. Implementing SaaS (Software as a Service) shows their own versions of the solution and representation of the different pricing models. To conclude, we have carefully gone over what we believe are the top main goals that will help determine that right fix for other companies. Both are very useful, but between the two, AJAX’s is the more efficient compared ACME due to the complexity, n \* Log2(N) as opposed to ACME’s complexity that is Log2(N) and can be used for longer. For big companies, they benefit more from AJAX and as for smaller companies they benefit more from using ACME.