**COMP2012H Project Proposal**

Sorting algorithm visualization H09

* Group Information
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* Project Background and Description
  + Since there were many types of sorting algorithms, it is highly important for us to know the difference in simplicity and efficiency. We choose Qt Instead of using console because users can intuitively manipulate the type of algorithm.
* Expected End Result of the Project
  + We are expecting to visualize the various types of sorting algorithms with different speed and different types of visualization using Qt with sound. Users can choose the sorting algorithm, number of elements, speed and types of visualization.

* OOP Technologies / Techniques and Data Structures to be applied
  + Linked list / Array
  + Inheritance
  + Dynamic memory allocation

* External Libraries to be used
  + QT

* References
  + <https://www.youtube.com/watch?v=kPRA0W1kECg>
  + <https://en.wikipedia.org/wiki/Sorting_algorithm>