**Interview for Requirement Gathering of Sorting Algorithms Animation Software**

Time:

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Rewrote by Yiming. Latest update: 12.1

To bring Team 10 a different view of visualising sorting algorithms in teaching perspective, rather than learner’s view, an interview was appointed with the lecturer teaching “Introduction to Algorithms” course in Year 1 (Y1 for short). We tried to gain information about how Y1 students learn sorting algorithms and teacher’s ideas of how they design the course and why they do so.

**Module**

Introduction to Algorithms teaches Y1 students algorithms through functional programming, that is, everything in recursion and no loops provided. He shows us the slides he used for teaching, which is mainly about recursion. To help student understand the process, trace, which would show changes after each step is done, is taking a main part of the slides.

He also stressed that most of the students don’t ask questions to him.

**Existing Similar Products**

Having been showed some existing products regarding to sorting algorithms and used them for a while, he points out that pseudo-code is not suitable for Y1 students. Instead, detailed explanation, like what, why and how, is expected in such a software. We should also notice that users shall be able to decide the list length.

We need to provide different shuffle scheme instead of only randomise the array.

**Hierarchy**

He thinks bubble sort is basic. Insert and merge sort are basic as well but should be introduced later.

**Platform**

He prefers Windows.

**Other**

He would be happy to use our software for teaching sorting algorithms, and he thought animation is suitable for displaying sorting algorithms.