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**ABSTRACT**

Algorithms Visualizations contribute to improve computer science education. The method of teaching and learning algorithms is commonly complex to understand the problem. Visualization is a helpful technique for learning in any engineering course. In this report, an elearning tool for Pathfinder, Prime Numbers, Sorting Algorithms, N Queen, Convex Hull, Binary Search Game visualization is described. For example, In sorting the animation tool would represent information as a bar and once choosing a data-ordering and algorithms, the user will run an automatic animation or step through it at their own pace. In path finding making the starting and the end node be able to move around or the user to choose wherever he wants it to start or end. The developed e-learning tool visualizes the algorithm rule steps execution. It’s meant to be used as a supplement to face-to-face instruction or as a complete application.

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