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Part 1. Selection Sort

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Video Length: 30 minutes

Selection Sort Algorithm

Description: The **Selection Sort** algorithm has an advantage over **Bubble Sort** technique because the algorithm makes fewer numeric comparisons in respect to $n-1$. The algorithm holds a value then increases the current index value to reduce the number of linear comparisons.

Define the **Selection Sort** algorithm exactly: Use a blank sheet of paper to practice writing notation .

Coding Challenge

Implement the **Selection Sort** algorithm in any programming language. Name ,data and save the document with today's data and name it **FirstName_Date_EP2**.

Terms and Concepts

For each term and concept below use a blank sheet of paper and redefine each idea in your own conception of the definition.

1. Graph-
2. Node-
3. Vertices-
4. Edge-
5. Parent-
6. Sibling-
7. Connected-
8. Weighted Graph-
9. Directed Graph-
10. Diagraph-
11. Path-
12. Cycle-
13. Complete-
14. Tree-
15. Forest-
16. Sparse-
17. Dense-

Algorithm Evaluation Diagram

Program Code	Cost	Number Operations
		Σ

Lets Try It !

Use practice paper replicate the image above. **Figure 2.1 Lets Try It ! Algorithm Evaluation**
Draw a Similar diagram for evaluating an algorithm.

Step 1. Create an algorithm for the **Selection Sort** problem.

Step 2. Occupy the program code section with the algorithm you created.

Step 3. Number each cost in relation to the number of operation performed in respect to an input n for each program statement.

Step 4. Make a Summation of the number of operations .

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