***Design and Analysis of Algorithm Lab***

***LABORATORY FILE***

***Submitted by:***

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***Batch: 9***

***B.Tech Computer Science and Engineering***

***Specialization AIML***

***3rd Semester***

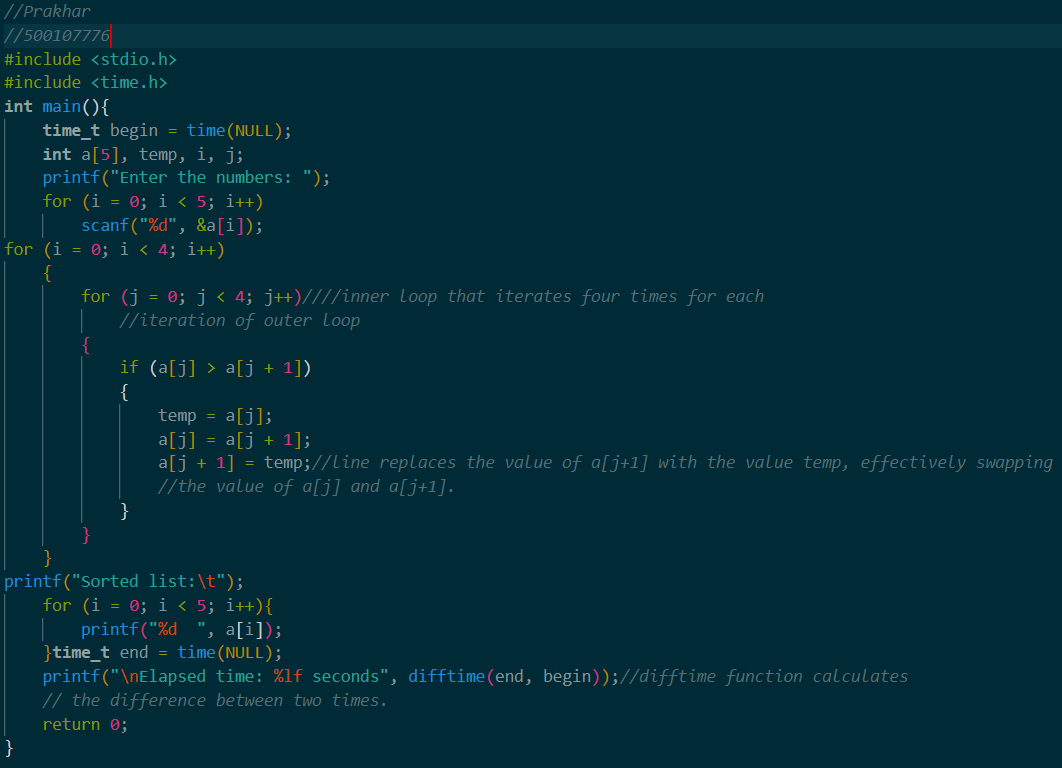
***Submitted to:***

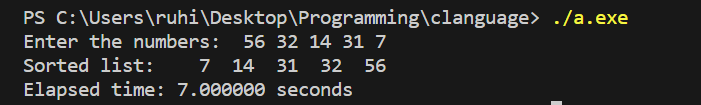
***Amar Jindal***

**EXPERIMENT 1: Title: BRUTE FORCE TECHNIQUES**

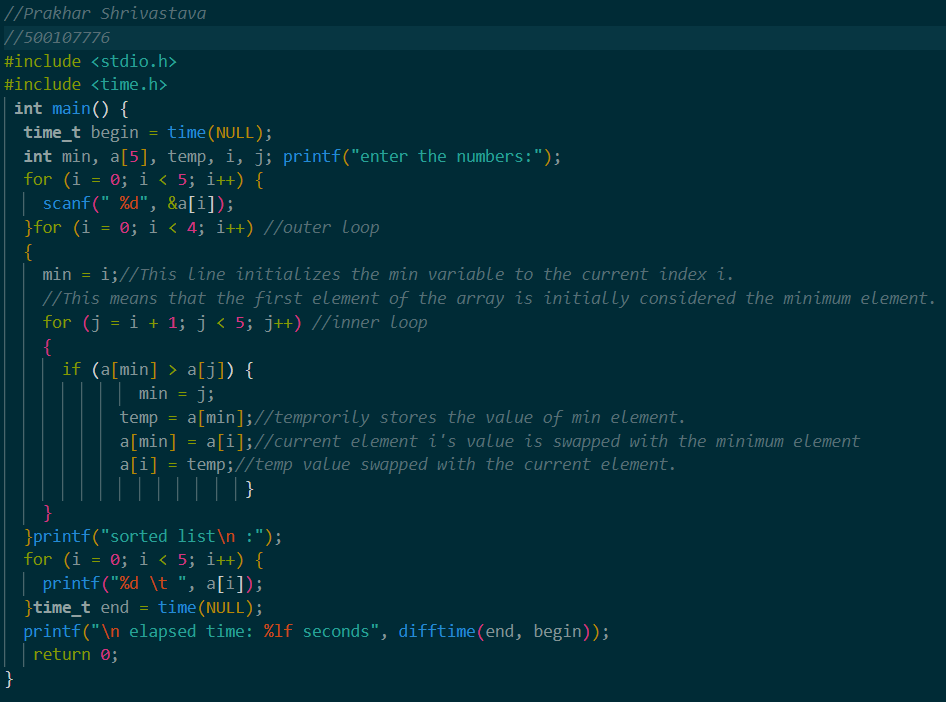
1. Sort a given set of elements using bubble and selection sort and hence find the time required to sort elements.

**Bubble Sort:**

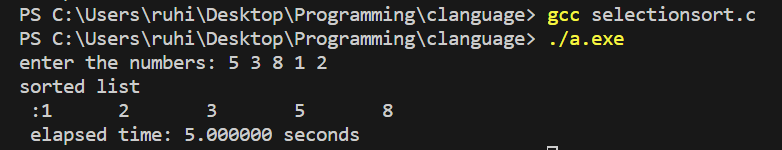
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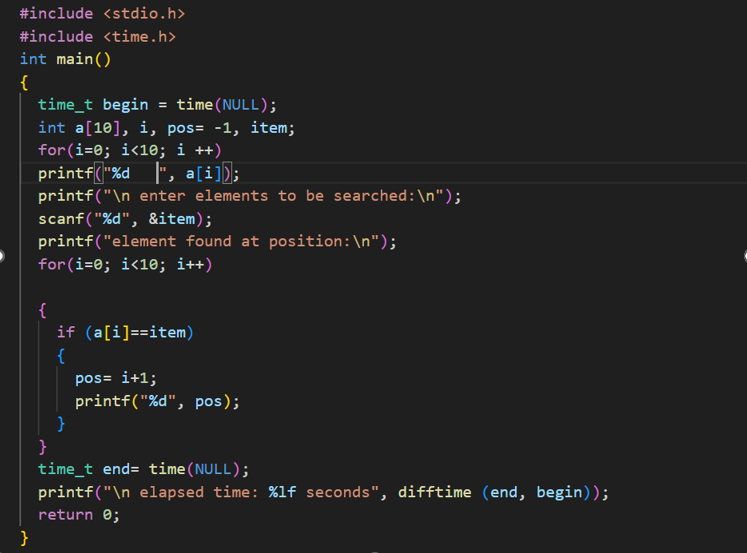
**Output:**

**Selection Sort:**

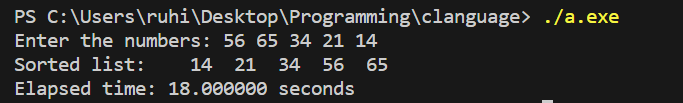
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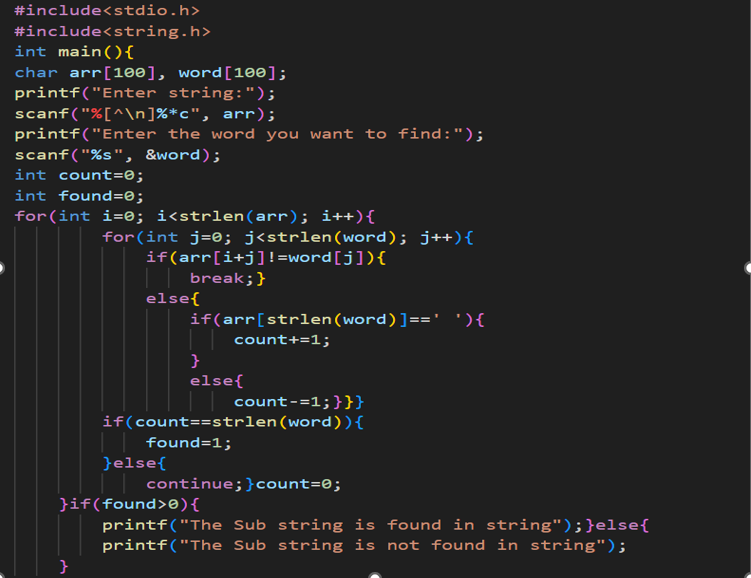
**Output:**

****2.Perform linear search and find the time required to search an element.



**Output:**

****3.Given a string called TEXT with ‘n’ characters and another string called PATTERN with ‘m’ characters (m<=n). Write a program which implements brute force string matching to search for a given pattern in the text. If the pattern is present then find the position of first occurrences of Pattern in that Text.



**Output:**

