

LAB 3

Version: 0.1

Date: 2018.09.01

Author: Vinh Hoang

Exercise 1: By using the bubble sort algorithm, write C# code to sort an integer array of 10 elements in ascending.

Exercise 2: Modify the C# code in exercise 1 in order to sort the array in descending order.

Exercise 3: By using the sequential search algorithm, write C# code to search for an element of an integer array of 10 elements.

Exercise 4: Modify the C# code in exercise 3 in order to search for an element of the array using binary search algorithm.

Exercise 5: A two-dimensional array stores values in rows and columns. By using two-dimensional array, write C# program to display a table of numbers as shown below:

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

21

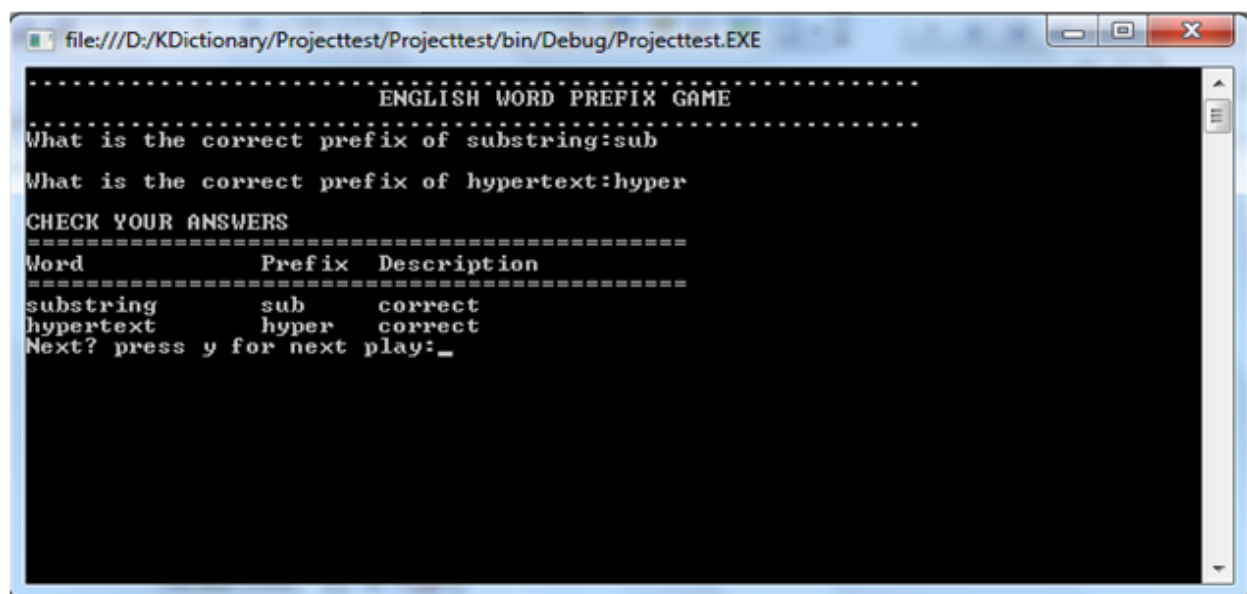
22

23

24

25

Exercise 6: Write a C# program create a simple English Word Prefix game. The program starts the first two questions by asking the user to guess the answer of each question. The answers are collected and report is produced. The report should show a list of words, prefixes, and descriptions. See the sample screen shot below:



```
file:///D:/KDictionary/Projecttest/Projecttest/bin/Debug/Projecttest.EXE
.....
ENGLISH WORD PREFIX GAME
.....
What is the correct prefix of substring:sub
What is the correct prefix of hypertext:hyper
CHECK YOUR ANSWERS
=====
Word      Prefix  Description
=====
substring    sub      correct
hypertext    hyper    correct
Next? press y for next play:_
```