

## HW5 – Basic Types

Due on Oct. 18th, 6:00pm

1. Write a program that calculates the average word length for a sentence:

Enter a sentence: It was deja vu all over again.

Average word length: 3.4

Assume that a punctuation mark and other special characters are part of a word to which it is attached.

2. Write a program that conducts the addition, subtraction, multiplication, or division of two fractions (by entering either +, -, \*, or / between two fractions):

Enter an equation: 5/6+3/4

Result: 38/24

Enter an equation: 5/6\*3/4

Result: 15/24

3. Write a program that receives two alphabet letters and print out vowels (a, e, i, o, and u) between them.

Enter the first letter: u

Enter the second letter: E

Vowels: u A E

Assume that the user may enter both upper-case and lower-case letters. The alphabet letters are ordered from 'A' to 'Z' and from 'a' to 'z'. 'Z' is followed by the letters from 'a' to 'z'. And, 'z' is followed by the letters from 'A' to 'Z'.