ITI1120 Section 2 Exercise Solutions

Exercise 2-1 – Collating Sequence

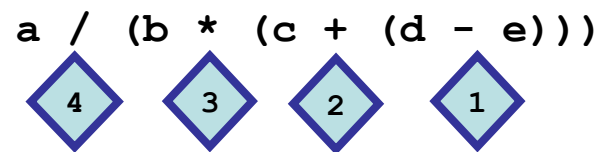`'A' < 'a'` is   **true**
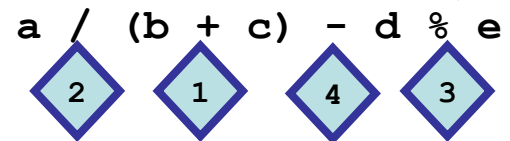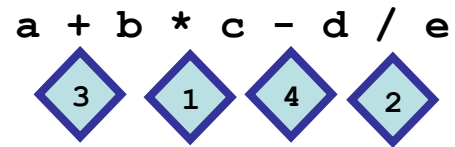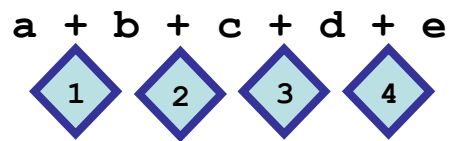
     while

`'?' < ' '` is   **false**

Exercise 2-2 - Test for Upper case
- Suppose the variable **x** contains a value of type **char**.
- Write a Boolean expression that is TRUE if the value of **x** is an upper case letter and is FALSE otherwise.
    - Note that you don't need to know the actual code value of the characters!

```
('A' <= x ) && ( x <= 'Z')
```


Exercise 2-3 - Operator Precedence

- What is the order of evaluation in the following expressions?

a + b + c + d + e

◇1 ◇2 ◇3 ◇4

a + b * c - d / e

◇3 ◇1 ◇4 ◇2

a / (b + c) - d % e

◇2 ◇1 ◇4 ◇3

a / (b * (c + (d - e)))

◇4 ◇3 ◇2 ◇1

```
// Variable declarations
double cost1; // first cost
double cost2; // second cost
double cost3; // third cost
double avg; // to store the average

avg = (cost1+cost2+cost3)/3;


// Variable declarations
int intVar1, intVar2; // 2 integer variables
int quotient;
int remainder;

quotient = intVar1/intVar2;
remainder = intVar1 % intVar2;
```

cost1

cost2

cost3

avg

intVar1

intVar2

quotient

remainder

CPU