University of Ottawa   **Student name** …………….………...
School of IT and Engineering   **Student no**. …………….………..……..
CSI 2165

Quiz 2

Q1. [2 mark] Multiple choice questions (circle one)
What is the SWI-Prolog answer to the following queries:

```
(1) ?- f(a) =.. [X,Y].
```

A. X = a, Y = f
B. No
C. X = f, Y = a
D. none of the above

```
(2) ?- assert(a(2)), assert(a(3)), retract(a(X)), write(X),
        write(' '),fail.
```

A. 2
   No

B. No

C. 2 3
   Yes

**D. 2 3
   No**

Q2. [2 marks]
Read the following program and provide the first 2 answers to the query.

Program	`prog(X,Y,[],[]).`
	`prog(X,Y,[X|T],[Y|T]):-!.`
	`prog(X,Y,[H|T],[H|T1]):- prog(X,Y,T,T1).`

Query	`?- prog(2,a,[1,2,3,2],R).`
Answer 1	`R = [1, a, 3, 2]`
Answer 2	`No`