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
\begin{verbatim}
prog(X,Y,[],[]).
prog(X,Y,[X|T],[Y|T]):-!.
prog(X,Y,[H|T],[H|T1]):- prog(X,Y,T,T1).
\end{verbatim}

Query
\(?- prog(2,a,[1,2,3,2],R).\)

Answer 1
R = [1, a, 3, 2]

Answer 2
No