

1996 Paper 6 Question 7

Prolog for Artificial Intelligence

Describe how lists that are represented by difference lists may be concatenated (or “appended”) in constant time. [6 marks]

Define a procedure `rotate(X,Y)` where both `X` and `Y` are represented by difference lists, and `Y` is formed by rotating `X` to the left by one element. [14 marks]