

1998 Paper 13 Question 8

Prolog for Artificial Intelligence

According to the rules of the Billy Badger Fan Club, an applicant is acceptable for membership provided that:

- The applicant must have two proposers who are members of the club.
- The applicant must be aged between 18 and 30 years of age (inclusive).
- Each proposer must have been a member for at least two years.
- Each proposer must not be a parent of the applicant.

Write a Prolog program that includes a rule for deciding whether an applicant is acceptable for membership, illustrating with a sample database. [20 marks]