```
Started on Thursday, 10 November 2022, 10:50 AM
             State Finished
    Completed on Thursday, 10 November 2022, 11:00 AM
       Time taken 10 mins
            Grade 6.40 out of 10.00 (64%)
Question 1
Incorrect
Mark 0.00 out of 2.00
 Select only valid Prolog terms:
 Select one or more:

    a. friend(friend(alice, bob), Charlie)

☑ b. friend(Friend(alice, bob), Friend)

☑ C. Friend(alice, bob)

X

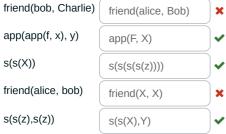
☑ d. friend(Alice, Bob)
✓

    e. friend

✓

✓ f. friend(Friend, Friend)
✓

✓ h. friend('_Friend', 1)
✓
 Your answer is incorrect.
 The correct answers are: friend(Alice, Bob), Friend, friend, friend(Friend, Friend), friend(friend(alice, bob), Charlie),
 friend('_Friend', 1)
Question 2
Partially correct
Mark 2.40 out of 4.00
 Match terms that unify in Prolog
 friend(bob, Charlie)
                      friend(alice, Bob)
 app(app(f, x), y)
                      app(F, X)
```



Your answer is partially correct.

```
You have correctly selected 3. The correct answer is: friend(bob, Charlie) \rightarrow friend(X, X), app(app(f, x), y) \rightarrow app(F, X), s(s(X)) \rightarrow s(s(s(s(z)))), friend(alice, bob) \rightarrow friend(alice, Bob), s(s(z),s(z)) \rightarrow s(s(X),Y)
```

Question 3	
Correct	
Mark 4.00 out of 4.00	

Consider the following knowledge base in Prolog:

```
unary(z).
unary(s(N)) :- unary(N).
inc(N, s(N)) :- unary(N).
inc(s(N), K) :- inc(N, K).
```

How many answers will the following query provide?

```
?- inc(s(s(s(z))), K)
```

Write -1 if you think there are infinitely many answers.

Write the finite number greater than or equal to 0, otherwise.



The correct answer is: 4