CS 161 HW 6

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1a)

1b) No unifier exists

1c)

1d) No unifier exists

2a) i.

ii.

iii.

iv.

v.

vi.

vii.

2b) I.

II.

III.

IV.

V.

VI.

VII.

VIII.

Using the unifier ,

IX. from I and II

Using the unifier ,

X. from I and III

2c) Using the unifier ,

XI. from VI and VIII

3) I.

II.

III.

IV.

Using the unifier

V. from I and III

VI. from IV and V

VII. from II and VI

4)

Attribute :

Entropy =

=

Information Gain =

Attribute :

Entropy =

=

Information Gain =

Attribute :

Entropy =

=

Information Gain =

Attribute has the most information gain so we split on that. Given , attribute has the most information gain so that is the next attribute we split.

0

0

1

0

0

1

1