Week 6 - hff & IW

Due No due date **Points** 4 **Questions** 4 **Time Limit** None
Allowed Attempts Unlimited

Attempt History
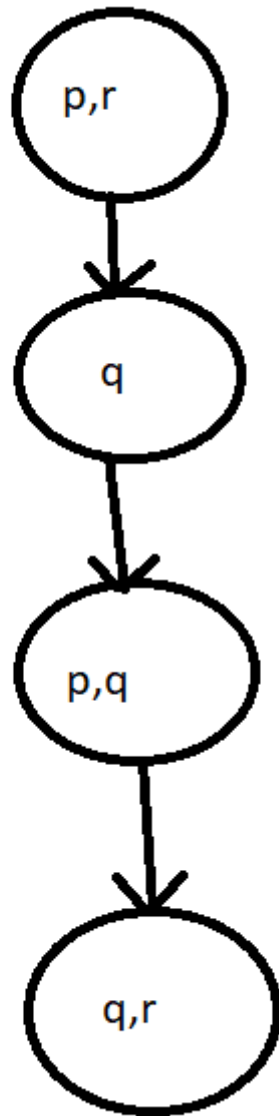
	Attempt	Time	Score
LATEST	Attempt 1	1 minute	2 out of 4

Submitted Apr 20 at 10:46

Question 1

0 / 1 pts

What is the novelty value of the last state if F = {p,q,r}?

States connected vertically by downward arrows:
- p,r
- q
- p,q
- q,r

○ 1

○ 2

○ 3

◉ |F| + 1

Question 2   1 / 1 pts

IW(1) is a Breadth First Search that prunes generated nodes with novelty > 1. IW(1) can solve the TSP problem

○ True

Correct!

◉ False

Question 3

1 / 1 pts

Which statement is correct?

Correct!

◉ Always hmax <= h+, sometimes h* <= hadd and h* <= hff

○ Sometime hmax <= h+ and always h* <= hadd and h* <= hff

○ Sometimes hmax <= h+ and sometimes h* <= hadd and h* <= hff

○ Always hmax <= h+, h* <= hadd and h* <= hff

Question 4

0 / 1 pts

What is the value of the delete relaxed plan heuristic hff if the goal is only package at D?

- Initial state I: $t(A), p(C)$.
- Goal G: $t(A), p(D)$.
- Actions A: $dr(X, Y), lo(X), ul(X)$.

	$t(A)$	$t(B)$	$t(C)$	$t(D)$	$p(T)$	$p(A)$	$p(B)$	$p(C)$	$p(D)$
bs^{add}_s	−	$dr(A, B)$	$dr(B, C)$	$dr(C, D)$	$lo(C)$	$ul(A)$	$ul(B)$	−	$ul(D)$

Extracting a relaxed plan:

1. $bs^{add}_s(p(D)) = ul(D)$; opens $t(D), p(T)$.
2. $bs^{add}_s(t(D)) = dr(C, D)$; opens $t(C)$.
3. $bs^{add}_s(t(C)) = dr(B, C)$; opens $t(B)$.
4. $bs^{add}_s(t(B)) = dr(A, B)$; opens nothing.
5. $bs^{add}_s(p(T)) = lo(C)$; opens nothing.
6. Anything more? No, open goals empty at this point.

$\rightarrow h^{FF}(I) = $?

○ 1

○ 3

ou Answered

◉ 4

orrect Answer

○ 5

○ >5