CSC 3102 HW#2

1a) a→b→e 1(a)

10 → a → c →f

 $\Box \rightarrow b \rightarrow d \rightarrow q$

d →c→h

(e) → a → f

 $E \rightarrow b \rightarrow e \rightarrow q$

(9) →c →f → h

 $h \rightarrow d \rightarrow q$

16) @→6,15 → e,64

(b) →9,15 → c,37 → f,71

C -> 6,37 -> d,19 -> 9,83

d → c,19 → h,15

(e) → a,64 -> F,24

€ + 6,71 -> e,24 -> 9,46

9 - c,83 - f,46 - h,12

h → d,15 -> g,12

1c) a→b

b-c-f

C->d-9

(a) - h

e →a

€ → b → e

9 → c → f

[h] → q

1a) @ → b,15

10 → C,37 → f,71

C → d,19 → g,23

(d) -> h15

E → 9,64

E) → b,41 → e,24

9 → C,83 → F,46

b → 9,12

| (6) | 1a) abcdel | egh 16 |) abcdefqh |
|-----|------------|----------------|--------------------------|
| | 9010010 | 100 | a 0 15 00 00 64 00 00 00 |
| | 6 101001 | 00 | b 15 0 37 00 00 71 00 00 |
| | 0010100 | | C 00 37 0 19 00 00 83 00 |
| | d001000 | | d 00 00 19 0 00 00 00 15 |
| | e 10000 | 100 | e 64 00 00 00 24 00 00 |
| | f01001 | 010 | p 00 71 00 00 24 0 4600 |
| | 900100 | The West Aller | 9 10 00 83 00 00 46 0 12 |
| | h[00010 | 0 (0 | h ≈ ~ ∞ 15 ~ ≈ 120 |
| | | | |
| | 1c) abcdet | gh 1d |) abcaefgh |
| | 9010000 | | 0 0 15 0 0 0 0 0 0 |

1c) a b c d e f g h

a 0 1 0 0 0 0 0 0 0

b 0 0 1 0 0 1 0 0

c 0 0 0 1 0 0 1 0

d 0 0 0 0 0 0 0 0

f 0 1 0 0 1 0 0 0

g 0 0 1 0 0 1 0 0

h 0 0 0 0 0 0 0 10

| 200) | BFS: a,b,e,c,f,d,g,h | |
|------|---|---|
| | pre-order DFS: a,b,c,d,h,g,f,e | |
| 2(6) | BFS: a, b, c, f, d, g, e, h pre-order DFS: a, b, c, d, h, g, f, e | |
| 3(a) | Ar 6 | |
| | E 8 5 | |
| | (CF5-(C) | |
| 3(6) | 4 6 | |
| | EX-9-13 7 8 5 (D-5-XC) | |
| 300 | abcde | |
| | a | |
| | d | 5 |
| | | |

4(a)



4(6)



4(C) 11Km, nllmax = m.n

4(d) 11Km, nllmin = M+n-1

4(e) m