MET CS 524 O2

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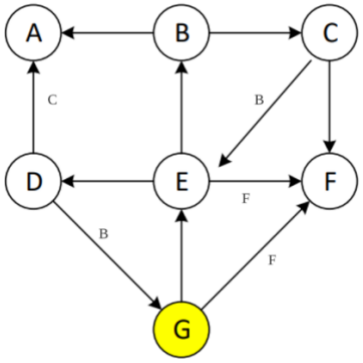
Assignment 6

Problem 1



G->E->B->A->

Back track to B

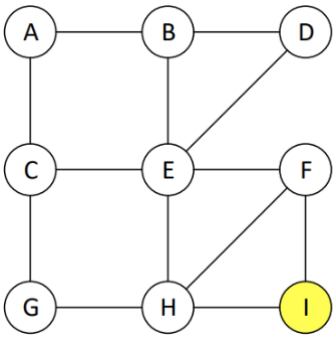
B->C->F

Back track: F->C->B->E

E->D

Finished

Problem 2



One edge away H,F

Two edge away G,E

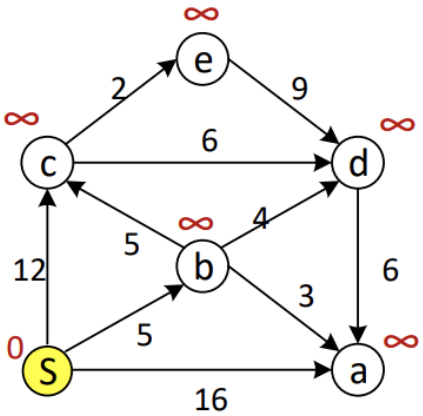
Tree edge away B,C,D

Four edge away A

Choose them in the alphabetical order

I->F->H->E->G->B->C->D->A

Problem 3(1)



S->b; S->a; S->c

dis[S]= 0; dis[c]=12; dis[b]=5; dis[a] =16

Distance: S,b,c,a renew.

S{ S(0), b(5), a(16), c(12), e(?), d(?)}

S->b->a; S->b->c; S->b->d

dis[a]= 8; dis[c]= 10; dis[d]=9

Distance: a,c,d renew.

S{ S(0), b(5), a(8), c(10), e(?), d(9)}

S->b->c->e;

Dis[e] = 12

Distance; e renew.

S{ S(0), b(5), a(8), c(10), e(12), d(9)}

Problem 3(2)

Shortest path

a: S->b->a

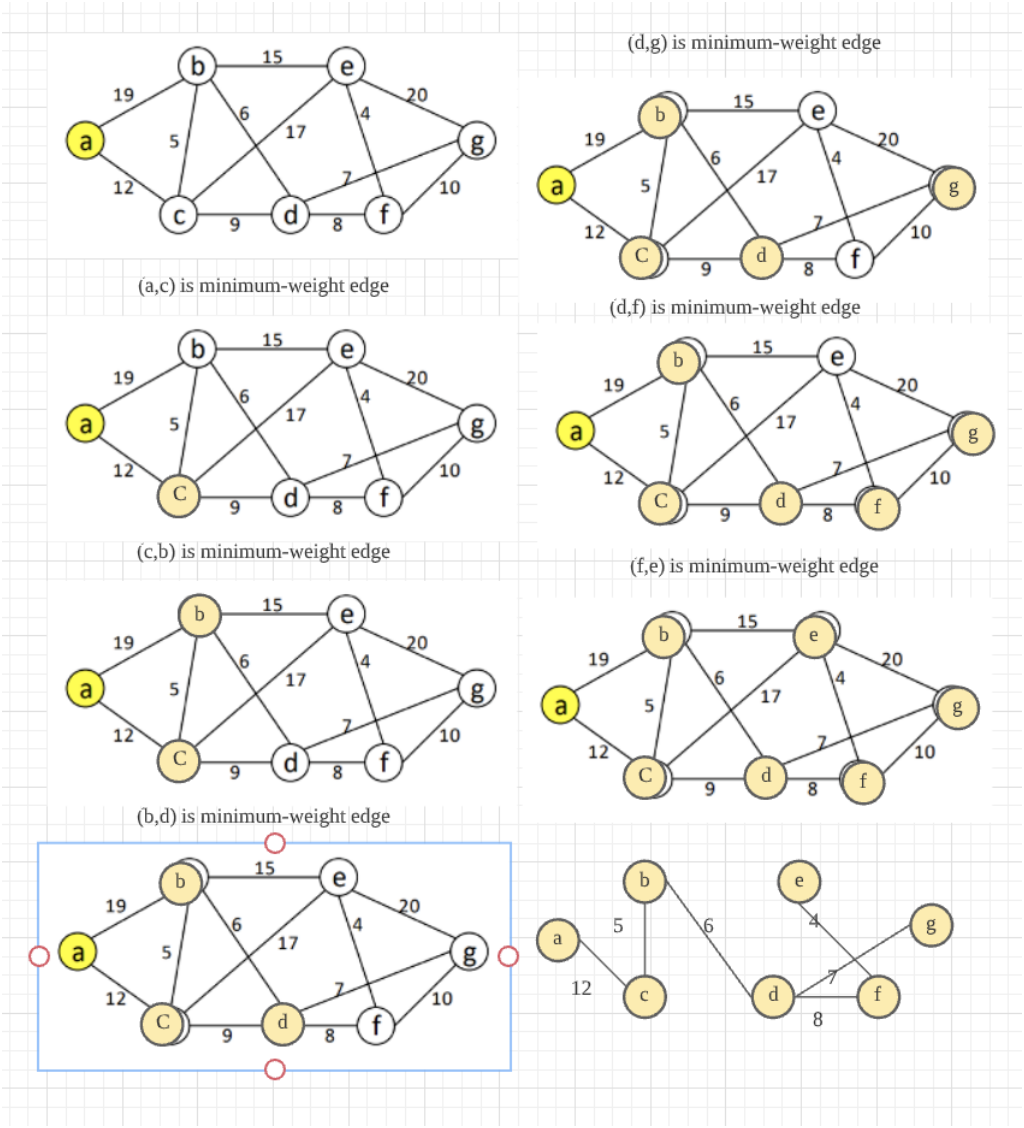
b: S->b

c: S->b->c

d: S->b->d

e: S->b->c->e

Problem 4



Sequence:

a->c->b->d->g->f->e

Weight:

(a,c) 12

(c,b) 5

(b,d) 6

(d,g) 7

(d,f) 8

(f,e) 4