107 Data Structure Homework 2

- Input : read file (input.txt)
 - Send good with weight x from city A to city K
 - Give several paths and throughput in each city (city name no more than 10 chars)
 - 0: Have the next data, -1: End
 - Output order in ASCII (answer may be not unique or no answer)

Problem

- Print the map (30%)
- Print all the paths from city A to city K (30%)
- Print all the best (throughput) paths from city A to city B (30%)
- Print all the paths has circle (30%)

Input range

- city name: no more than 10 chars
- throughput in each city (>=0): positive integer, not exceeding the integer type
- cargo weight (>0): positive integer, not exceeding the integer type

城市到城市之間的路徑,如果該路徑沒重複經過同一城市,才能算第二題或是第三題的答案,例如:城市A到城市H

- A,B,C,K,W,E,C,D,H (X)
- A,B,C,F,E,K,I,O,U,H (O)

From city A to city K **Haw except tab** specification goods is 7 units

From city A through city C and city

E to city H

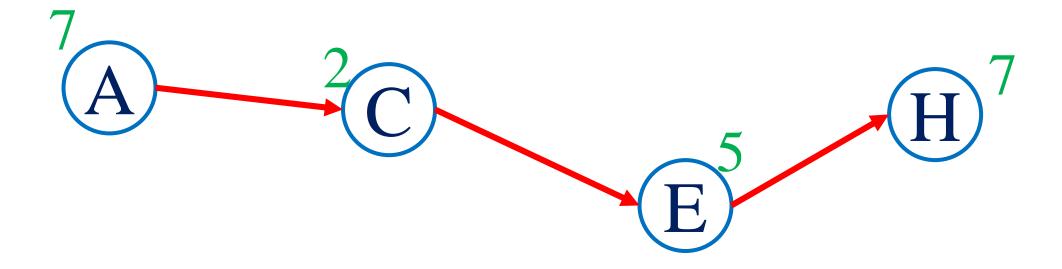
The number behind the city name From city A to city B represents throughput The weight of the goods is 4 units

0: Have the next data

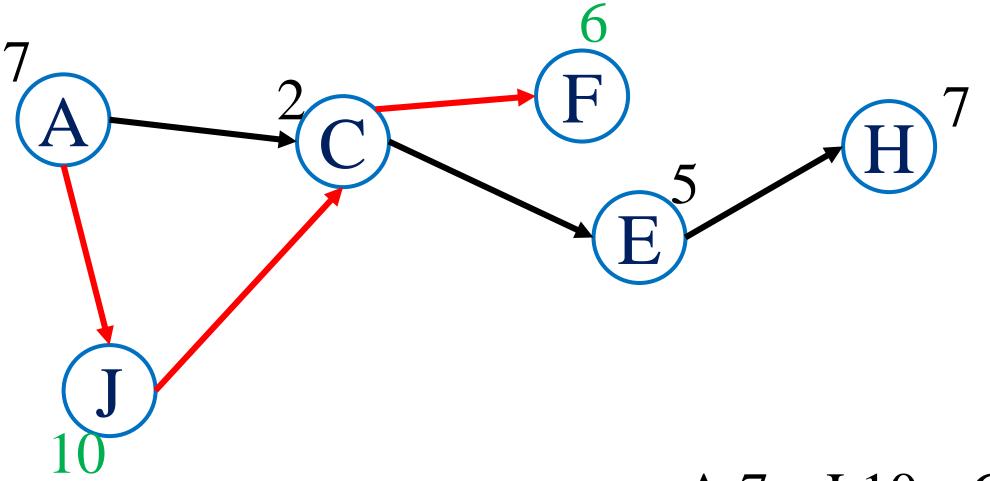
-1 : End

A, 7->C, 2->E, 5->H, 7A, 7->J, 10->C, 2->F, 6I, 4->E, 5->K, 12->D, 6 J, 10->K, 12->G, 4->L, 3D, 6->G, 4->H, 7->L, 3->I, 4 B. 15->E, 5 7->C, 2->E, 5->H, 7A, 7->J, 10->C, 2->F, 6I, 4->E, 5->K, 12->D, 6

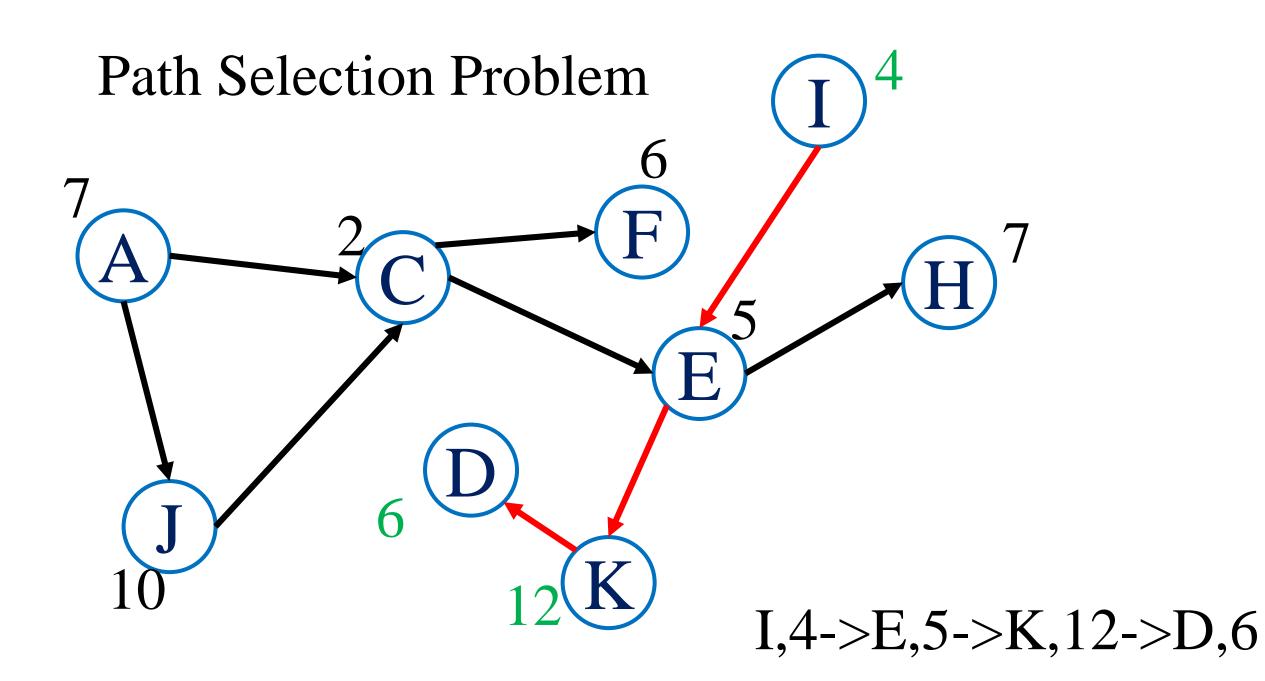
J, 10->K, 12->G, 4->L, 3

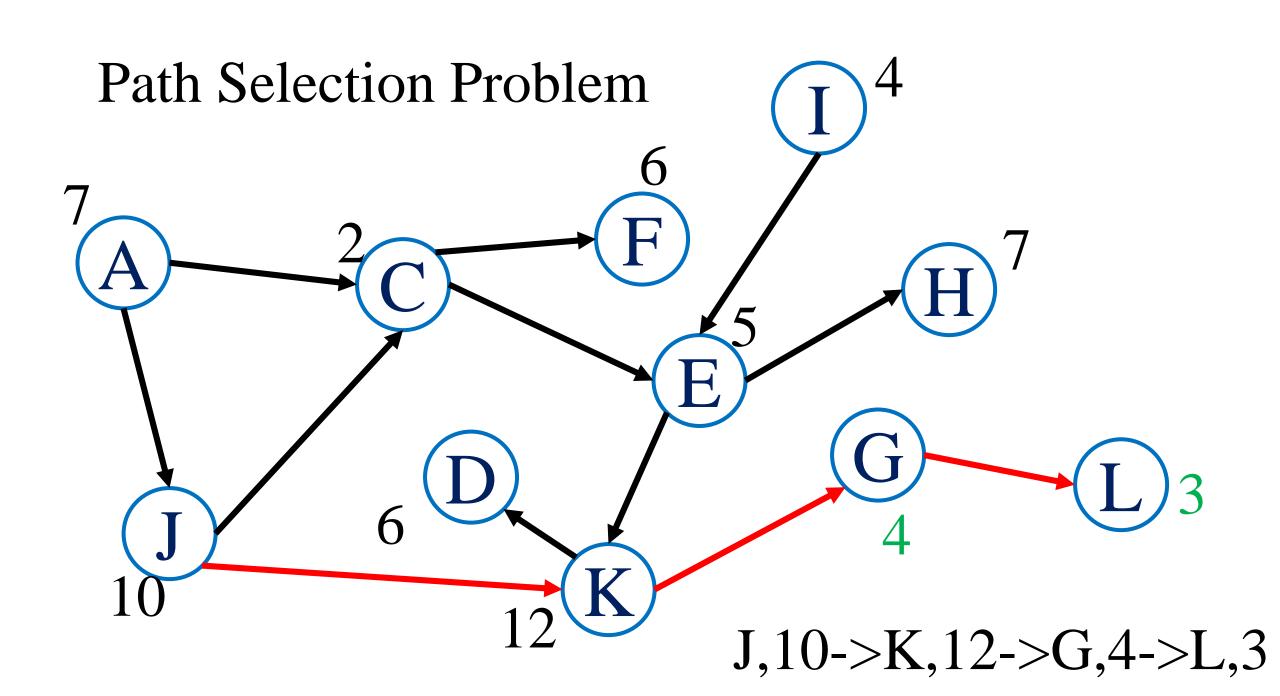


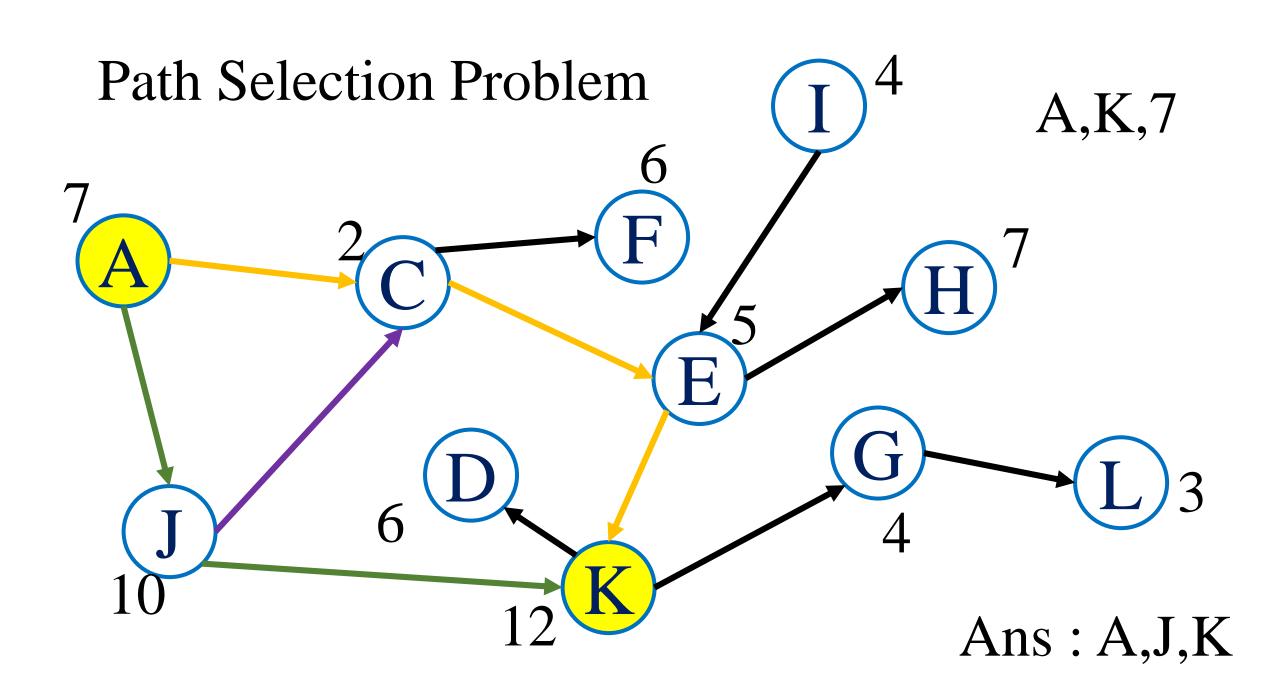
A,7->C,2->E,5->H,7

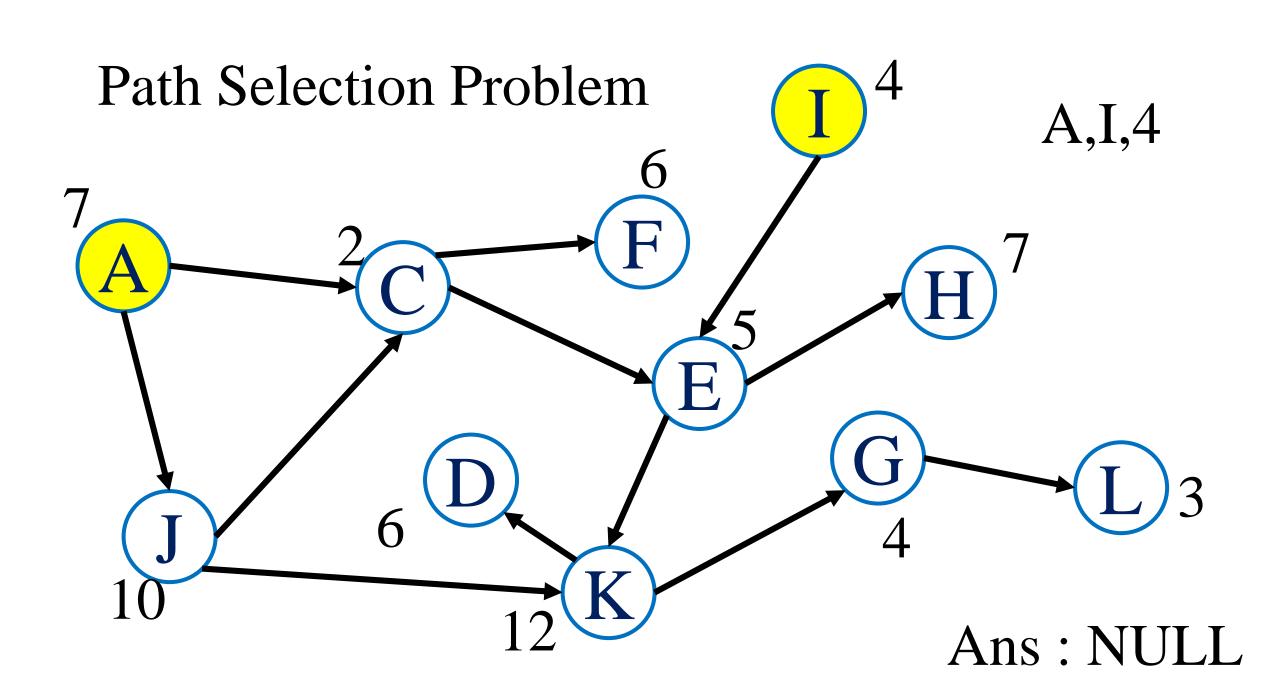


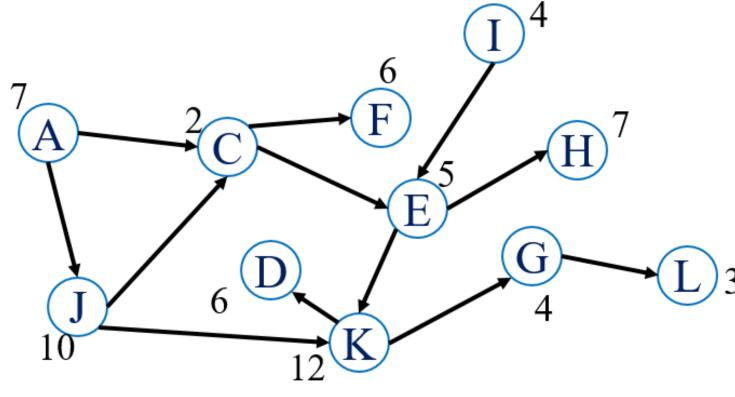
A,7->J,10->C,2->F,6











```
All the paths from city A to city K :
A,C,E,K
A,J,C,E,K
All best paths from city A to city K :
A,J,K
All the paths has circle :
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read file (input.txt)

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FILE *fp;
char ch;
if((fp=fopen("input.txt","r"))==NULL){
    printf("open file error!!\n");
}
```

- Send code
- Only accepted C
- No score if you don't use linked list
- Homework upload to iLearning platform
- Deadline: 2018.11.05(—) 23:59
- 檔名: main.c
- 測資不公開,截止日期前可以一直重新上傳
- · 作業Deadline後才會改,分數直接上iLearning看
- 抄襲嚴懲,請打上註解
- 交不合以上規定的作業,將直接不計分(讀檔和編譯問題除外)