

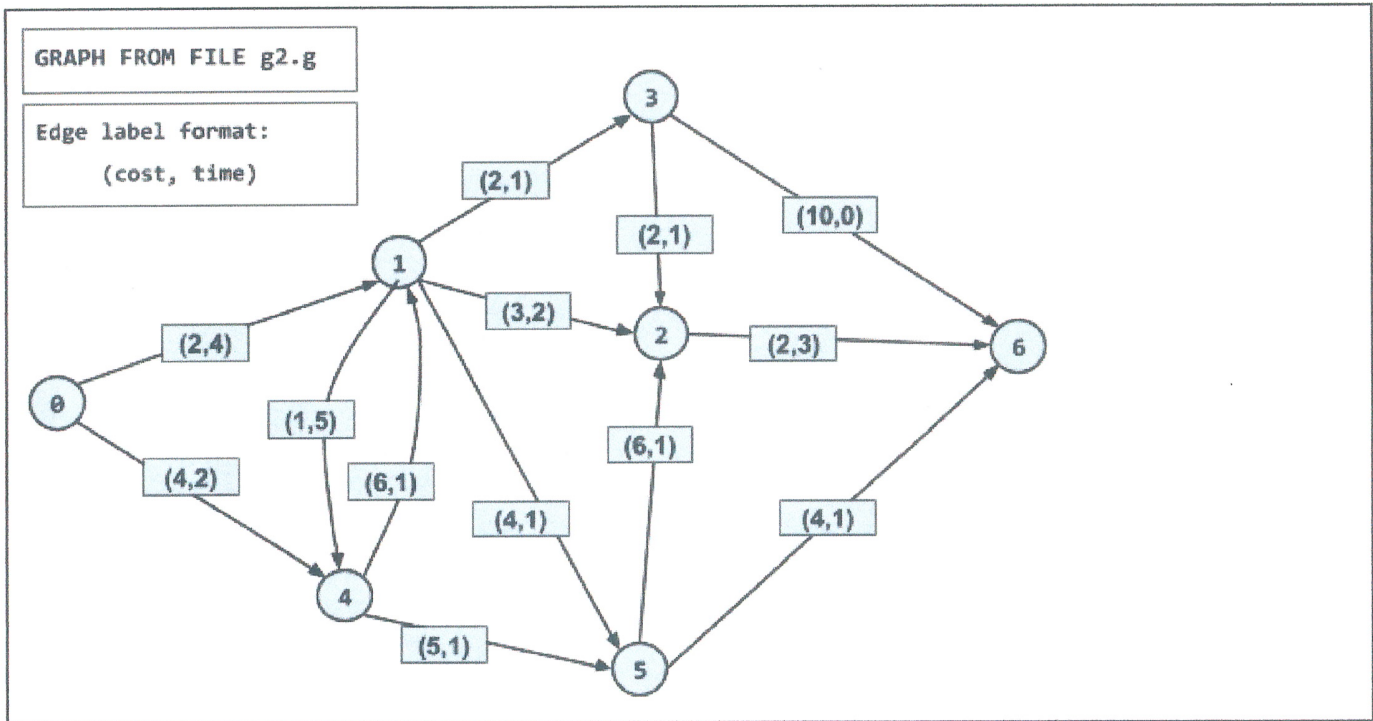
Piotr Ramza

Worksheet for Prog2 Warmup

Task: simulate the described algorithm to populate the $P[]$ lists with resulting option lists / tradeoff curves. (Source vertex: 0).

On a separate sheet, maintain and update the priority queue entries. Submit both this page and your sheet maintaining the priority queue (granted, the separate sheet is kind of scratch work, but submit it anyhow).

A short video will be posted to get you started.



$P[0]$	$(0,0)$
$P[1]$	$(2,4)$ $(10,3)$
$P[2]$	$(5,6)$ $(6,6)$ $(12,6)$ $(13,5)$ $(15,4)$
$P[3]$	$(4,5)$ $(12,4)$
$P[4]$	$(3,9)$ $(4,2)$
$P[5]$	$(6,5)$ $(8,10)$ $(9,3)$
$P[6]$	$(7,9)$ $(10,6)$ $(13,4)$

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Queue

X $\langle (0, 0), 0 \rangle$ Delete_Min 1

X $\langle (2, 4), 1 \rangle$ Delete_Min 2

X $\langle (4, 2), 4 \rangle$ Delete_Min 4

X $\langle (3, 9), 4 \rangle$ Delete_Min 3

X $\langle (4, 5), 3 \rangle$ Delete_Min 5

X $\langle (5, 6), 2 \rangle$ Delete_Min 6

X $\langle (6, 5), 5 \rangle$ Delete_Min 7

~~$\langle (7, 10), 1 \rangle$~~ Already checked

X ~~$\langle (8, 10), 5 \rangle$~~ Delete_Min 10 Not worth

X $\langle (9, 3), 5 \rangle$ Delete_Min 11

X $\langle (10, 3), 1 \rangle$ Delete_Min 12

X ~~$\langle (6, 6), 2 \rangle$~~ Delete_Min 8 Not worth

X ~~$\langle (14, 5), 6 \rangle$~~ Delete_Min 18 not worth

X $\langle (7, 9), 6 \rangle$ Delete_Min 9

X ~~$\langle (12, 6), 2 \rangle$~~ Delete_Min 15 Not worth

X $\langle (10, 6), 6 \rangle$ Delete_Min 13

X ~~$\langle (15, 4), 2 \rangle$~~ Delete_Min 19 not worth

X $\langle (13, 4), 6 \rangle$ Delete_Min 16

~~$\langle (11, 8), 4 \rangle$~~

~~$\langle (14, 4), 5 \rangle$~~

X $\langle (13, 5), 2 \rangle$ Delete_Min 17

X $\langle (12, 4), 3 \rangle$ Delete_Min 14

~~$\langle (14, 5), 2 \rangle$~~ Not worth

~~$\langle (22, 4), 6 \rangle$~~ Not worth

~~$\langle (17, 7), 6 \rangle$~~ Not worth