

B	A	2.5
E	A	3
F		
C		
H		
G		
D		
I		

Looking at F:

Node	Previous node	Shortest time from A
A	A	0
B	A	2.5
E	A	3
F	A	2
C		
H		
G		
D		
I		

Looking at C:

Has two paths from E or from B

From E time = $3 + 10/8 = 4.25$

From B time = $2.5 + 49/7 = 9.5$

Thus, the path from E is taken

Node	Previous node	Shortest time from A
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A	A	0
B	A	2.5
E	A	3
F	A	2
C	E	4.25
H		
G		
D		
I		

Looking at H:

Has three paths from C, E and F

From C time = $4.25 + 70/10 = 11.25$

From E time = $3 + 60/20 = 6$

From F time = $2 + 4/1 = 6$

Thus, the path from F is taken

Node	Previous node	Shortest time from A
A	A	0
B	A	2.5
E	A	3
F	A	2
C	E	4.25
H	F	6
G		
D		
I		

Looking at G:

Has paths from H, F

$$\text{Time from H} = 6 + 22/5 = 10.4$$

$$\text{Time from F} = 2 + 12/3 = 6$$

Thus, the path from F is taken

Node	Previous node	Shortest time from A
A	A	0
B	A	2.5
E	A	3
F	A	2
C	E	4.25
H	F	6
G	F	6
D		
I		

Looking at D:

D only has a path from C

$$\text{Time} = 4.25 + 64/16 = 8.25$$

Node	Previous node	Shortest time from A
A	A	0
B	A	2.5
E	A	3
F	A	2
C	E	4.25
H	F	6
G	F	6

D	C	8.25
I		

Looking at I:

Has three paths D, H and G

Time from D = $8.25 + 30/5 = 14.25$

Time from H = $6 + 5/1 = 11$

Time from G = $6 + 15/3 = 11$

Thus, the path from G is Taken

Node	Previous node	Shortest time from A
A	A	0
B	A	2.5
E	A	3
F	A	2
C	E	4.25
H	F	6
G	F	6
D	C	8.25
I	G	11

Shortest path = A,F,G,I with total time of 11