

Paper Reference 9FM0/4D
Pearson Edexcel
Level 3 GCE

Further Mathematics
Advanced
PAPER 4D: Decision Mathematics 2

Monday 23 June 2025 – Afternoon
Time: 1 hour 30 minutes

Diagram Booklet

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END OF THE EXAMINATION.

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

There are two copies of all diagrams.

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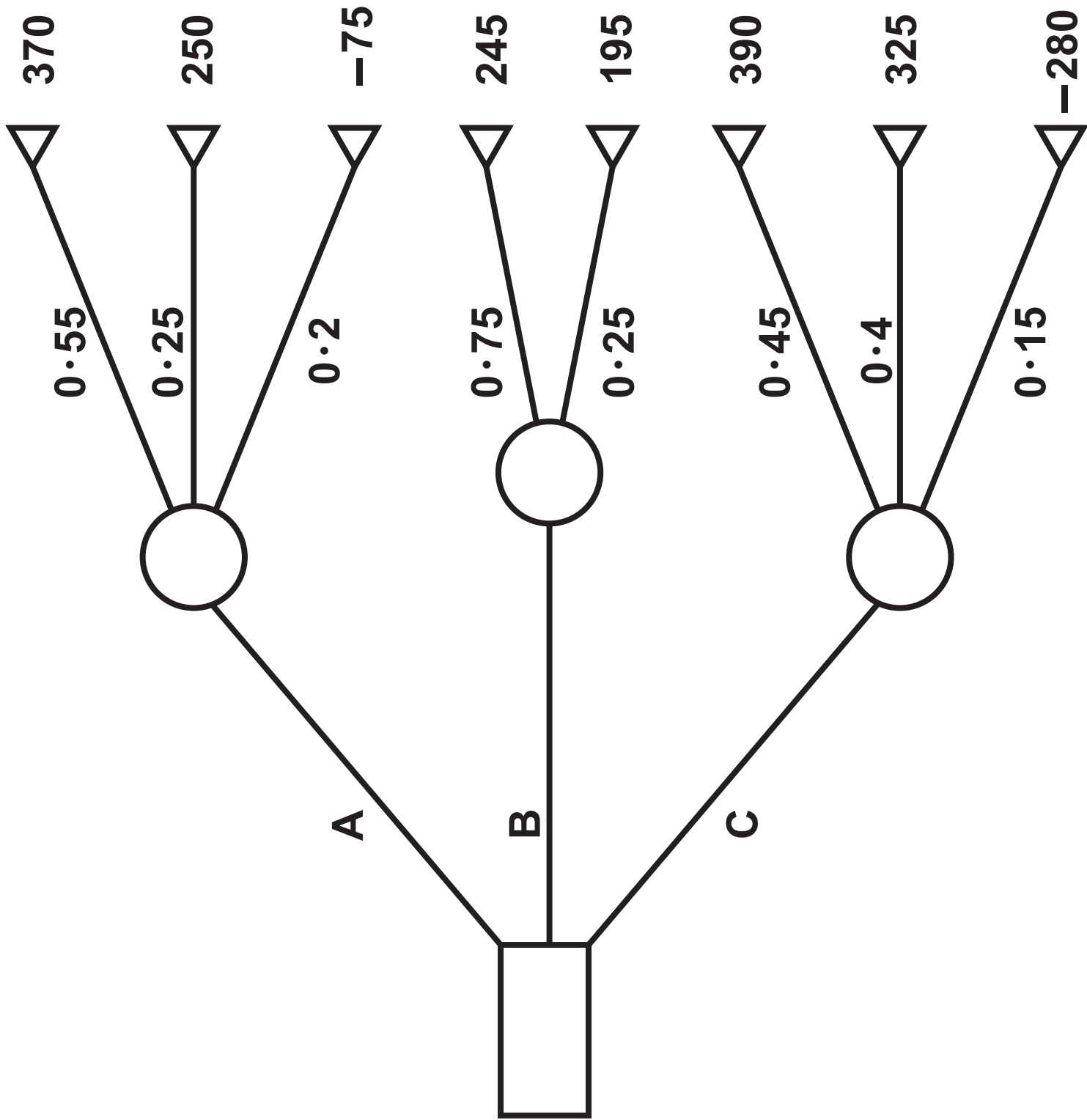


Diagram 2

	P	Q	R	S
A	25	32	43	28
B	41	37	–	38
C	43	35	37	39
D	40	33	37	41
E	37	38	43	40

Diagram 3

	P	Q	R	Supply
A	27	23	25	35
B	29	30	28	41
C	29	33	26	29
D	32	34	36	45
Demand	57	31	62	

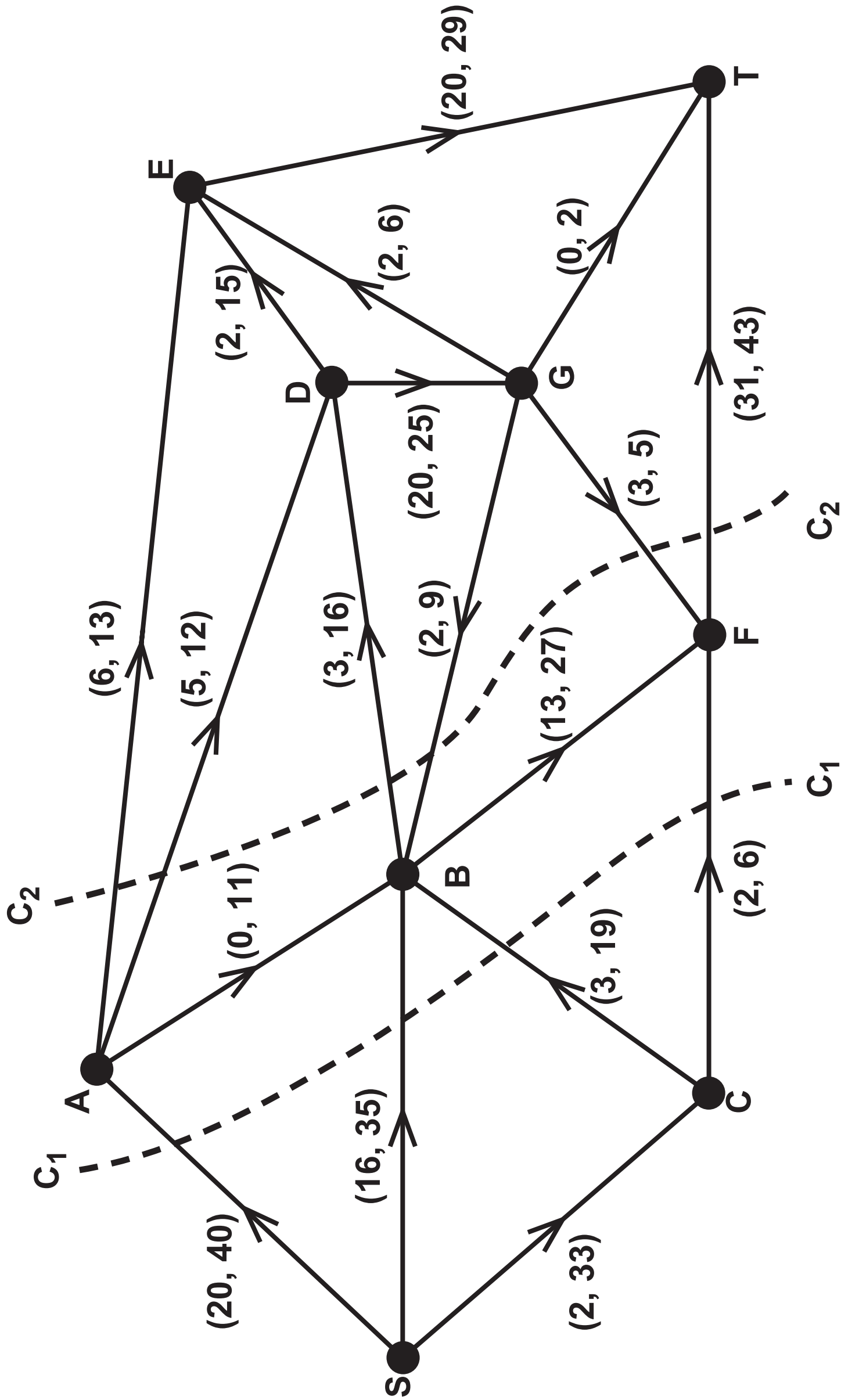


Diagram 5

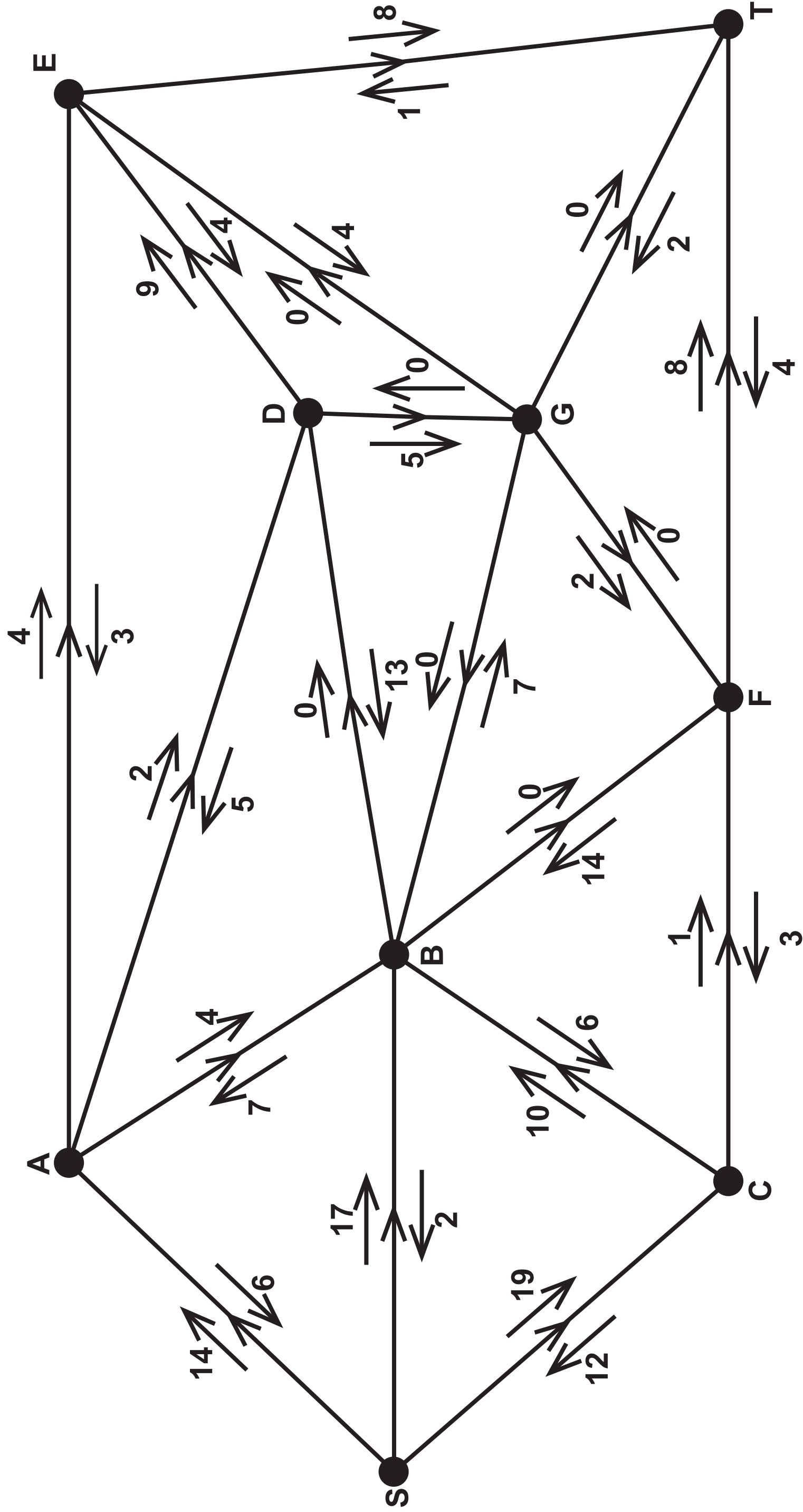


Diagram 6

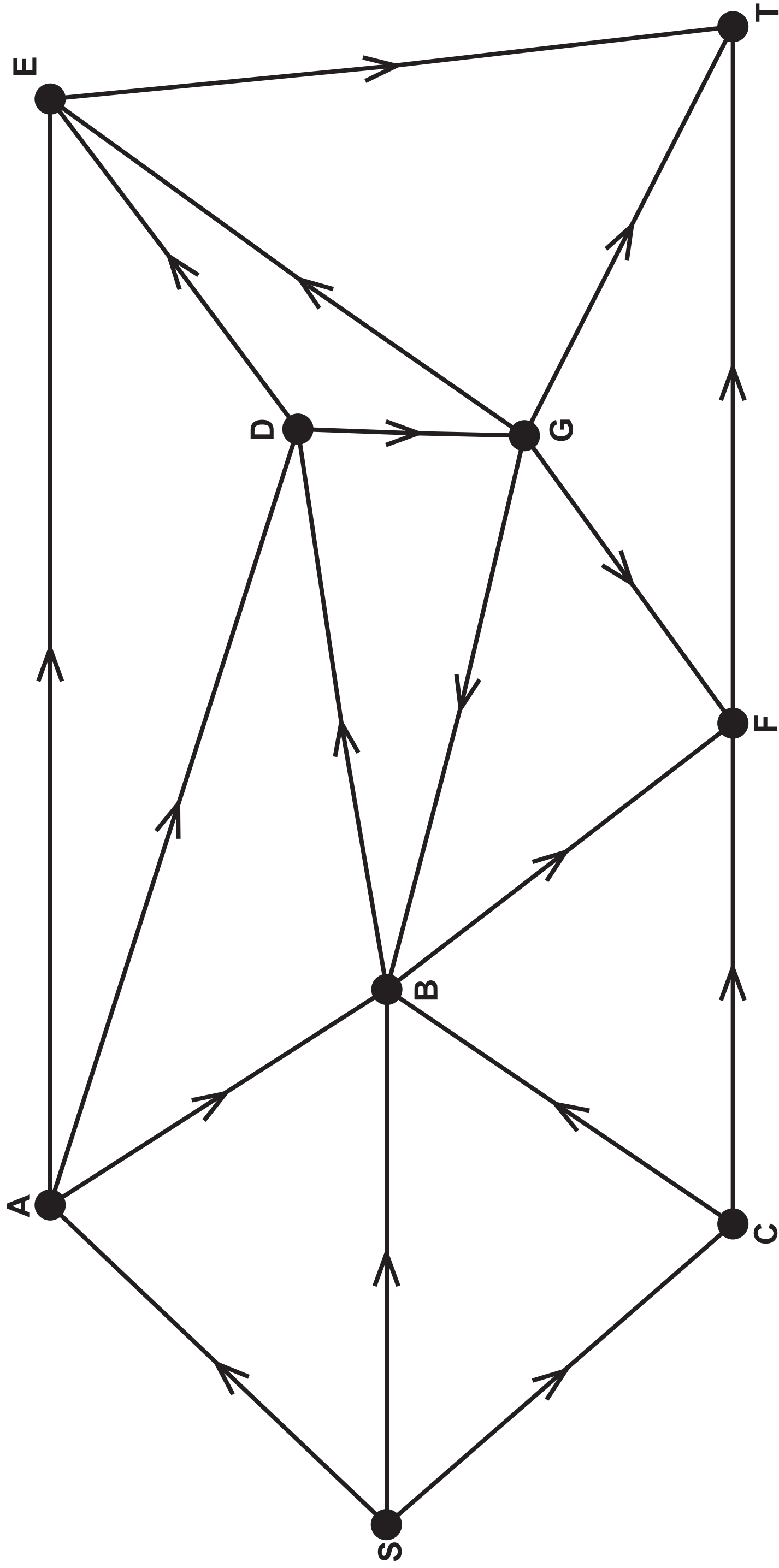


Diagram 7

Month	Number ordered
November	2
December	5
January	6
February	4
March	3

Diagram 8

Stage	State	Action	Destination	Value
March	3	0	0	210 = 210 [*]
	2	1	0	140 + 60 = 200 [*]
	1	2	0	70 + 120 = 190 [*]
	0	3	0	180 = 180 [*]

Diagram 8 continued.

[illegible]

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Turn over

Diagram 8 continued.

[illegible]

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Turn over

Diagram 8 continued.

Stage	State	Action	Destination	Value

Month	November	December	January	February	March
Number made					

Diagram 9

		Player B		
		Option P	Option Q	Option R
Player A	Option X	4	−2	−5
	Option Y	−1	1	3

Diagram 10

		Player B		
		Option P	Option Q	Option R
Player A	Option X	4	−2	−5
	Option Y	−1	1	3
	Option Z	4	−1	1

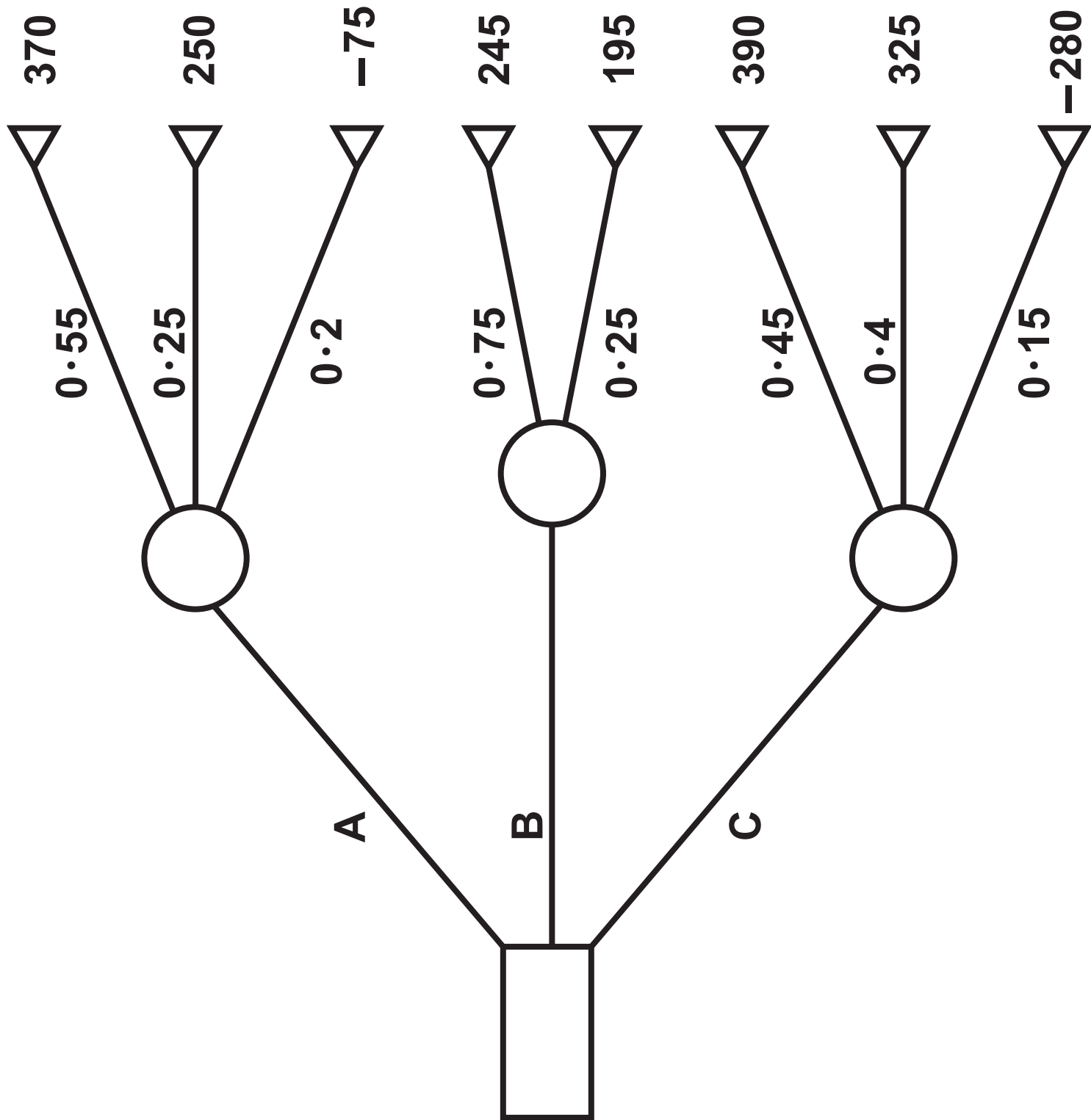
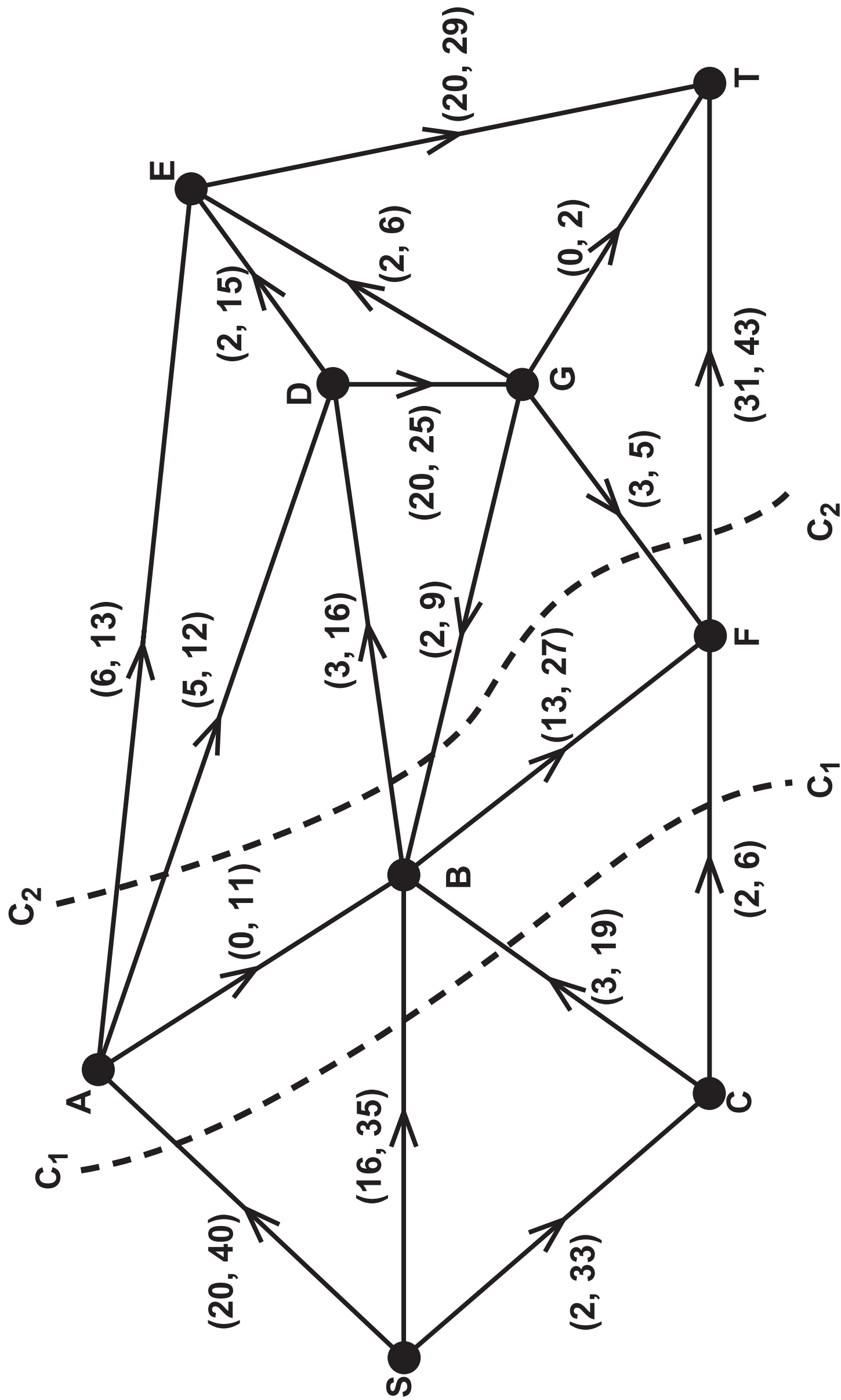


Diagram 2 – spare copy

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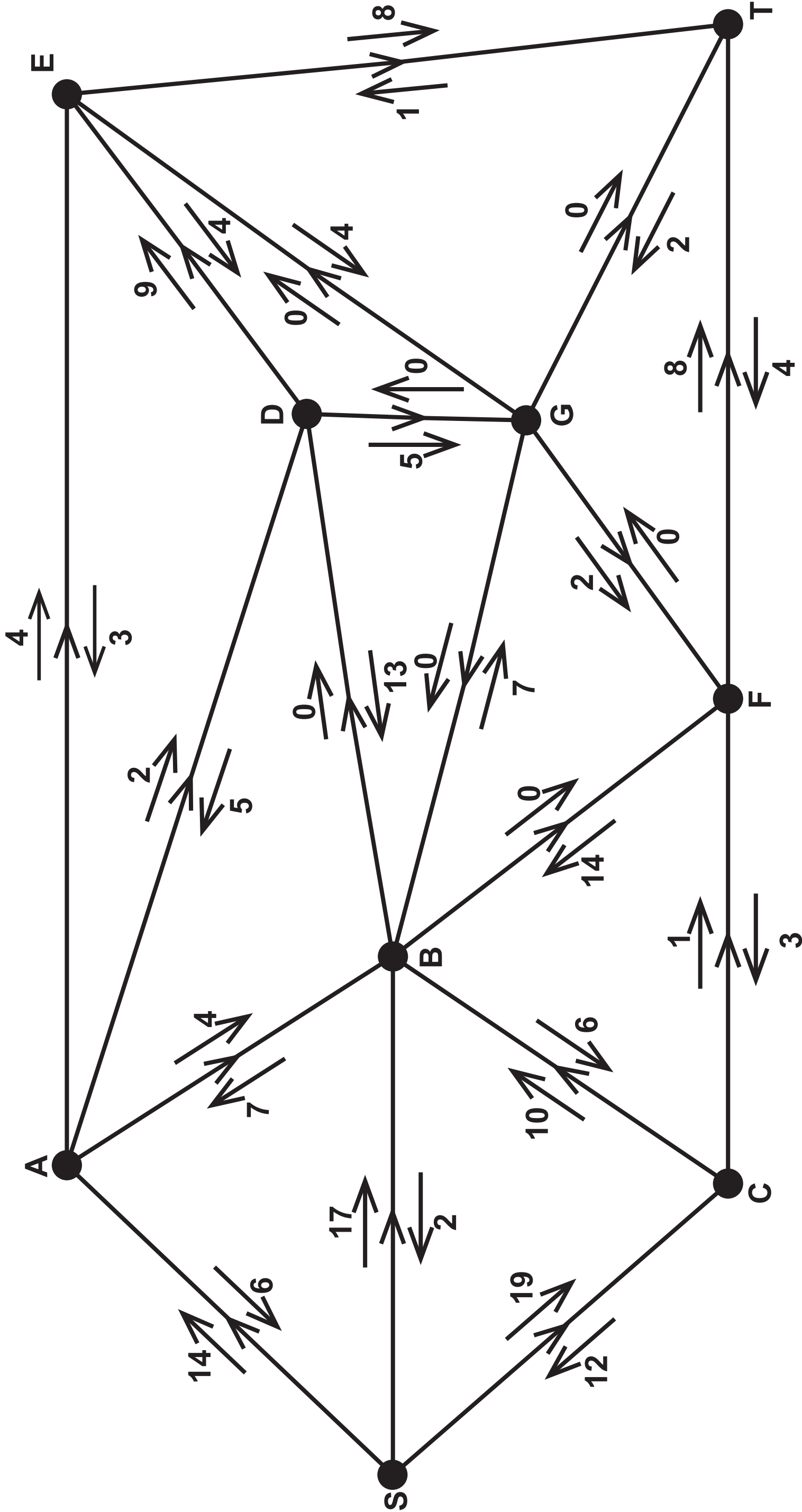


Diagram 6 – spare copy

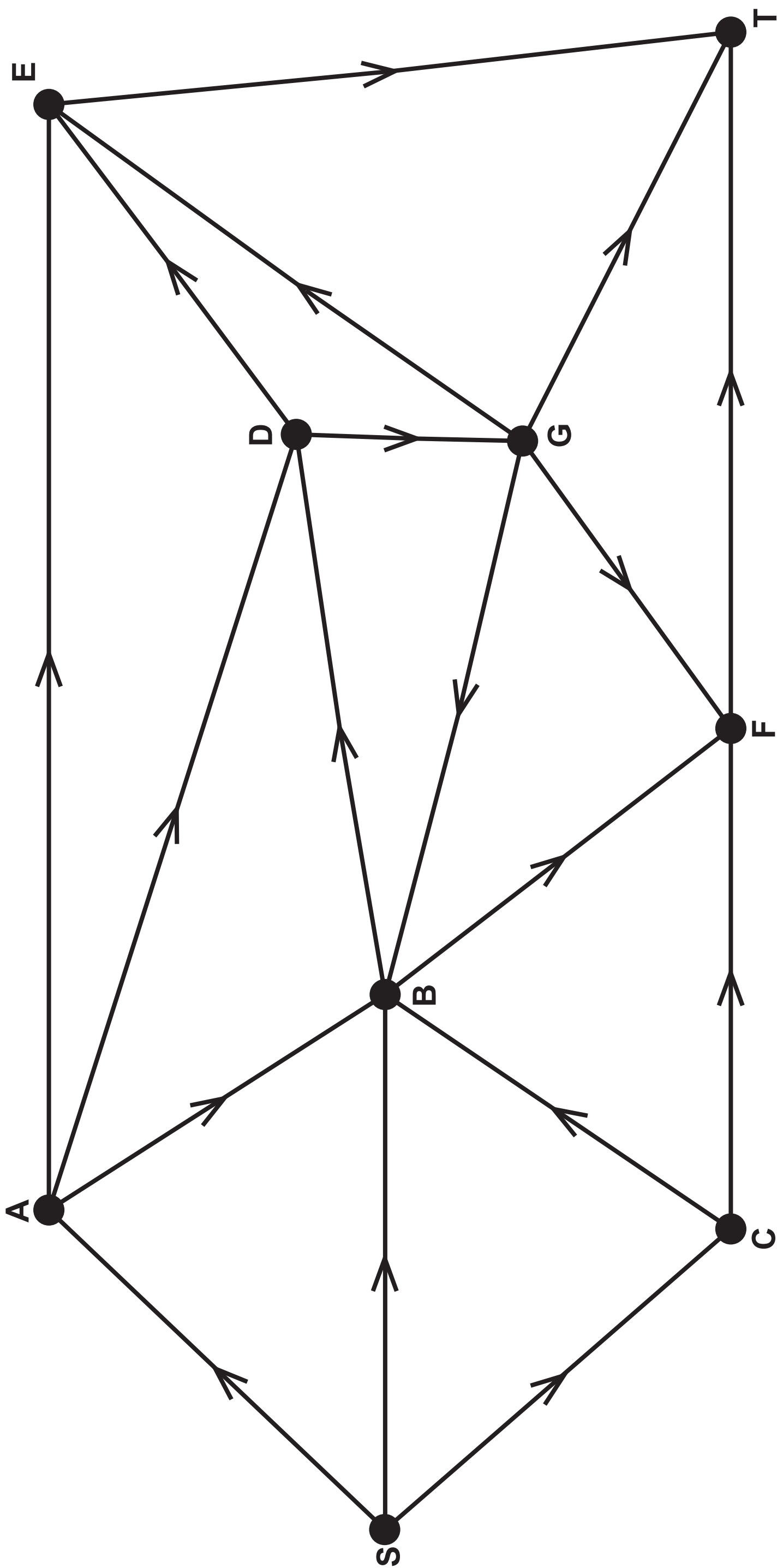


Diagram 7 – spare copy

Month	Number ordered
November	2
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January	6
February	4
March	3

Diagram 8 – spare copy

Stage	State	Action	Destination	Value
March	3	0	0	210 = 210*
	2	1	0	140 + 60 = 200*
	1	2	0	70 + 120 = 190*
	0	3	0	180 = 180*

Diagram 8 – spare copy continued.

Stage	State	Action	Destination	Value

Diagram 8 – spare copy continued.

Stage	State	Action	Destination	Value

Diagram 8 – spare copy continued.

Stage	State	Action	Destination	Value

Month	November	December	January	February	March
Number made					

Diagram 9 – spare copy

		Player B		
		Option P	Option Q	Option R
Player A	Option X	4	−2	−5
	Option Y	−1	1	3

Diagram 10 – spare copy

		Player B		
		Option P	Option Q	Option R
Player A	Option X	4	−2	−5
	Option Y	−1	1	3
	Option Z	4	−1	1