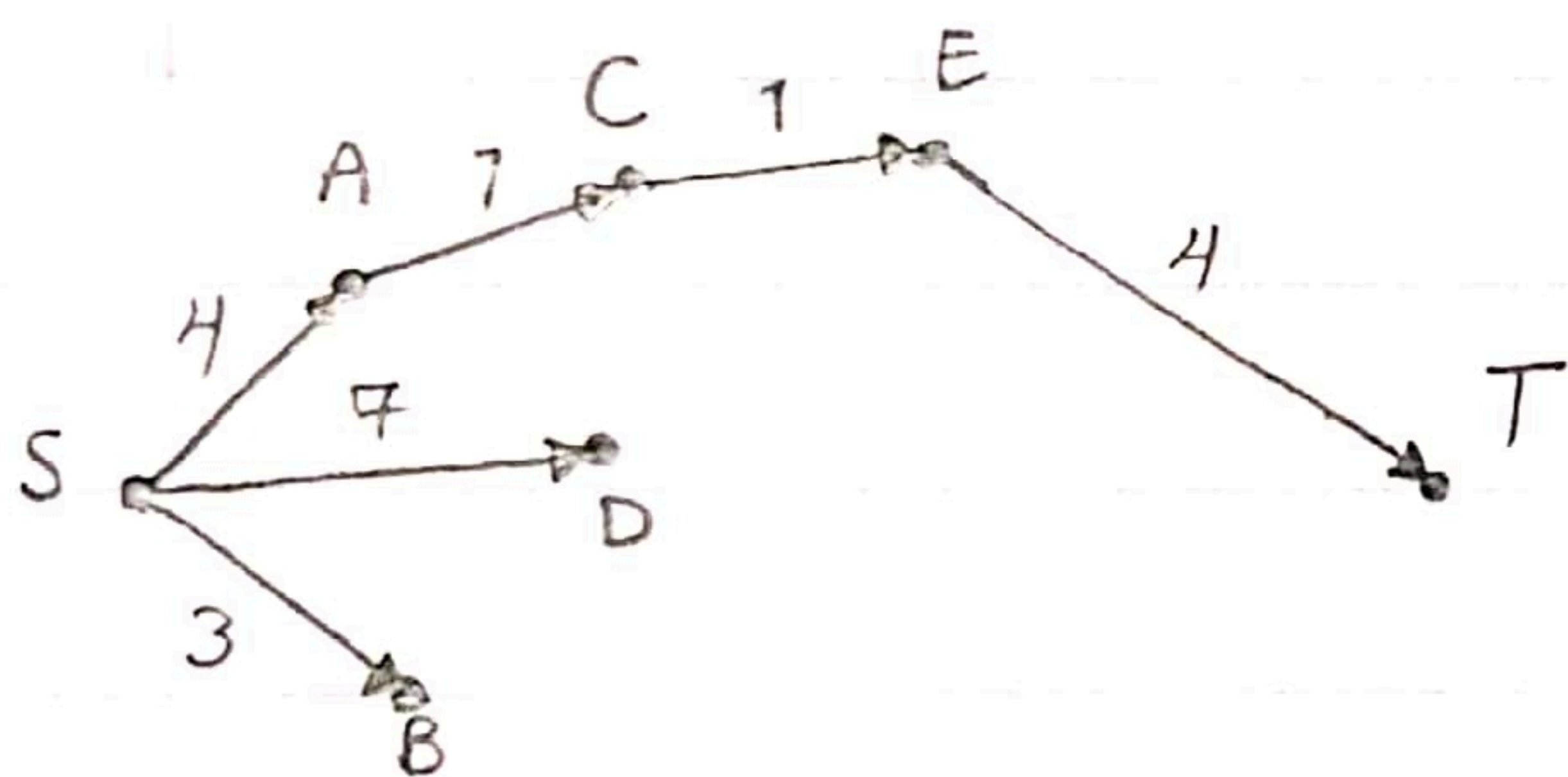


Quiz 27

98412004 حیدر سید زاری ، 98411387 انوار رضایی

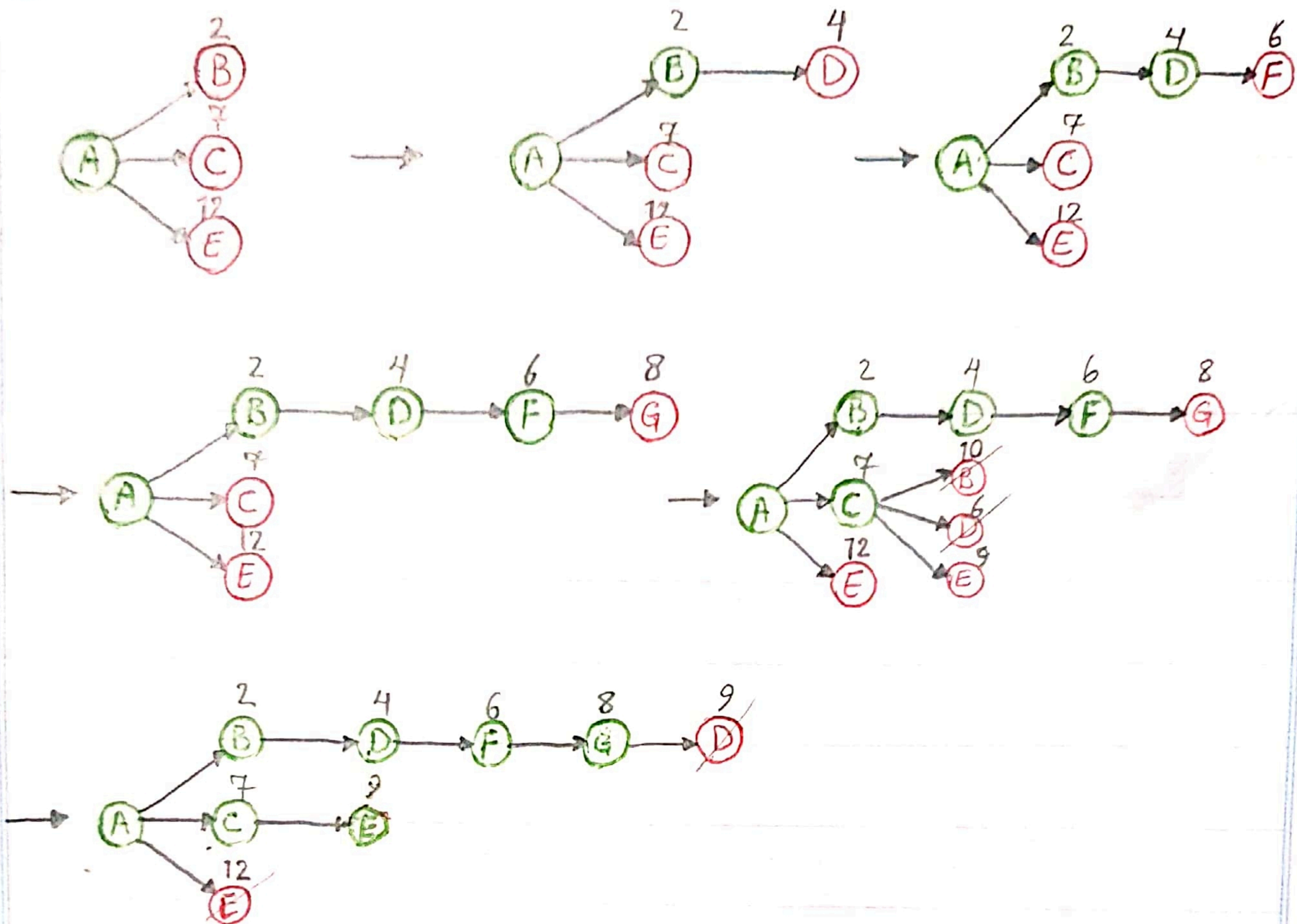
①

	S	A	C	E	G	D	B	F	T
S	0	∞	∞	∞	∞	∞	∞	∞	∞
SB	0	4	∞	∞	∞	7	③	∞	∞
SBA	0	④	∞	∞	∞	7	3	∞	∞
SBAC	0	4	⑤	∞	∞	7	3	∞	∞
SBACE	0	4	5	⑥	∞	7	3	∞	∞
SBACED	0	4	5	6	8	⑦	3	∞	10
SBACEDT	0	4	5	6	8	7	3	12	⑩

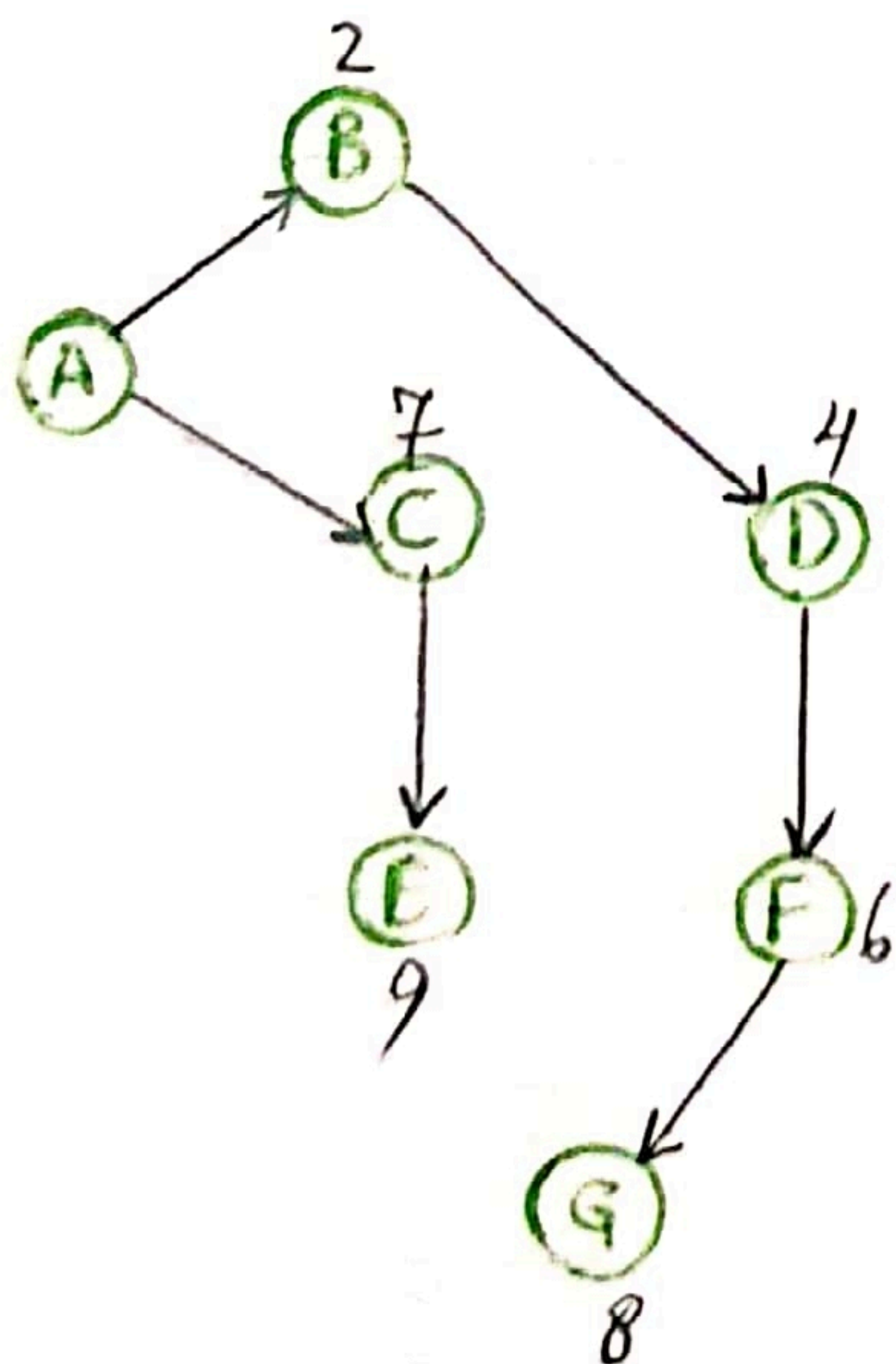


The shortest paths between vertices S and T: SACET

2

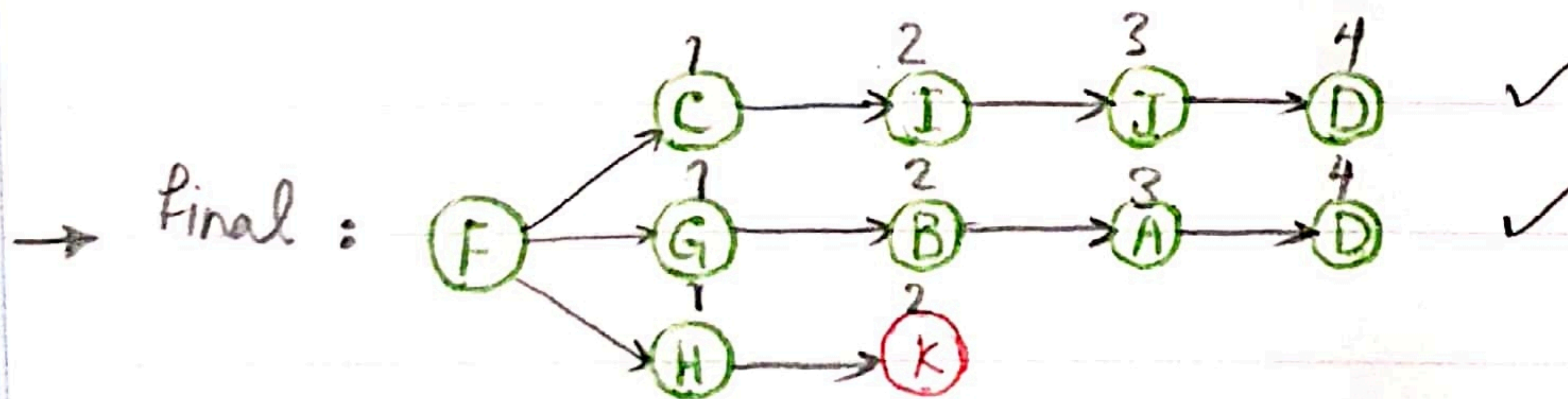
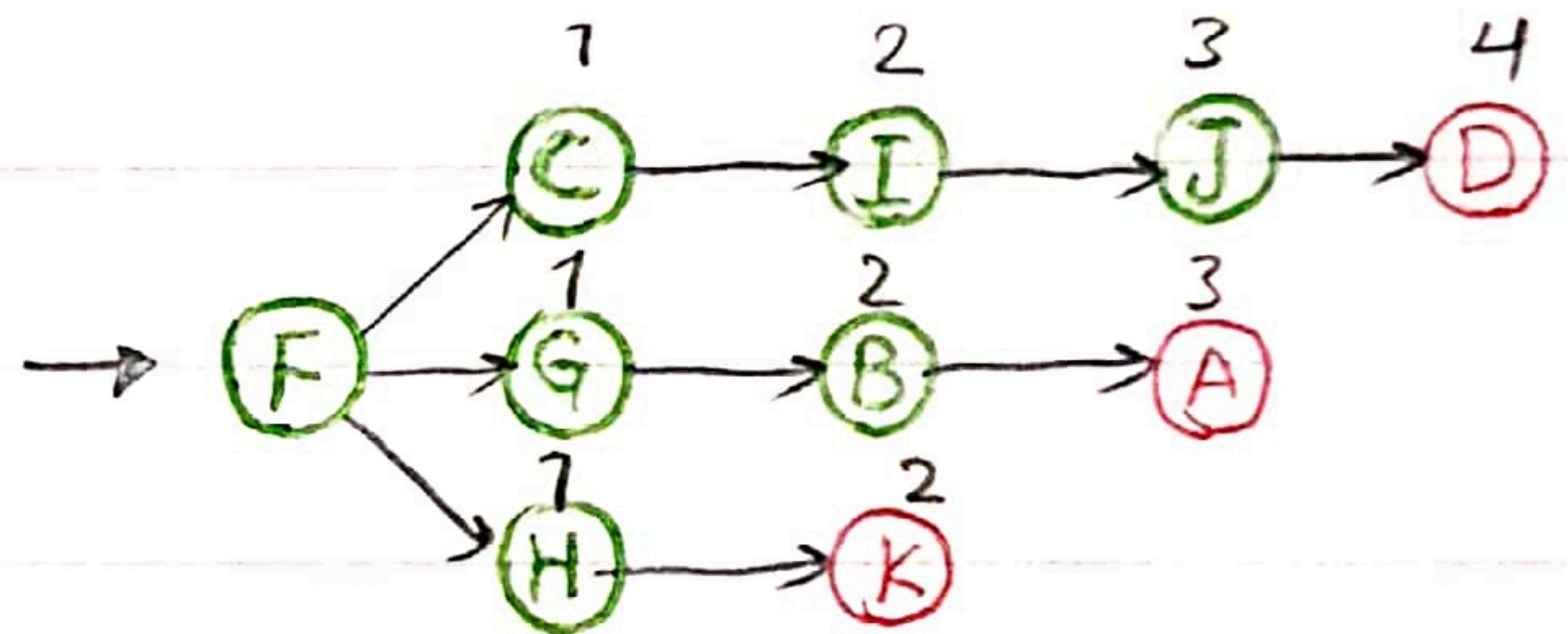
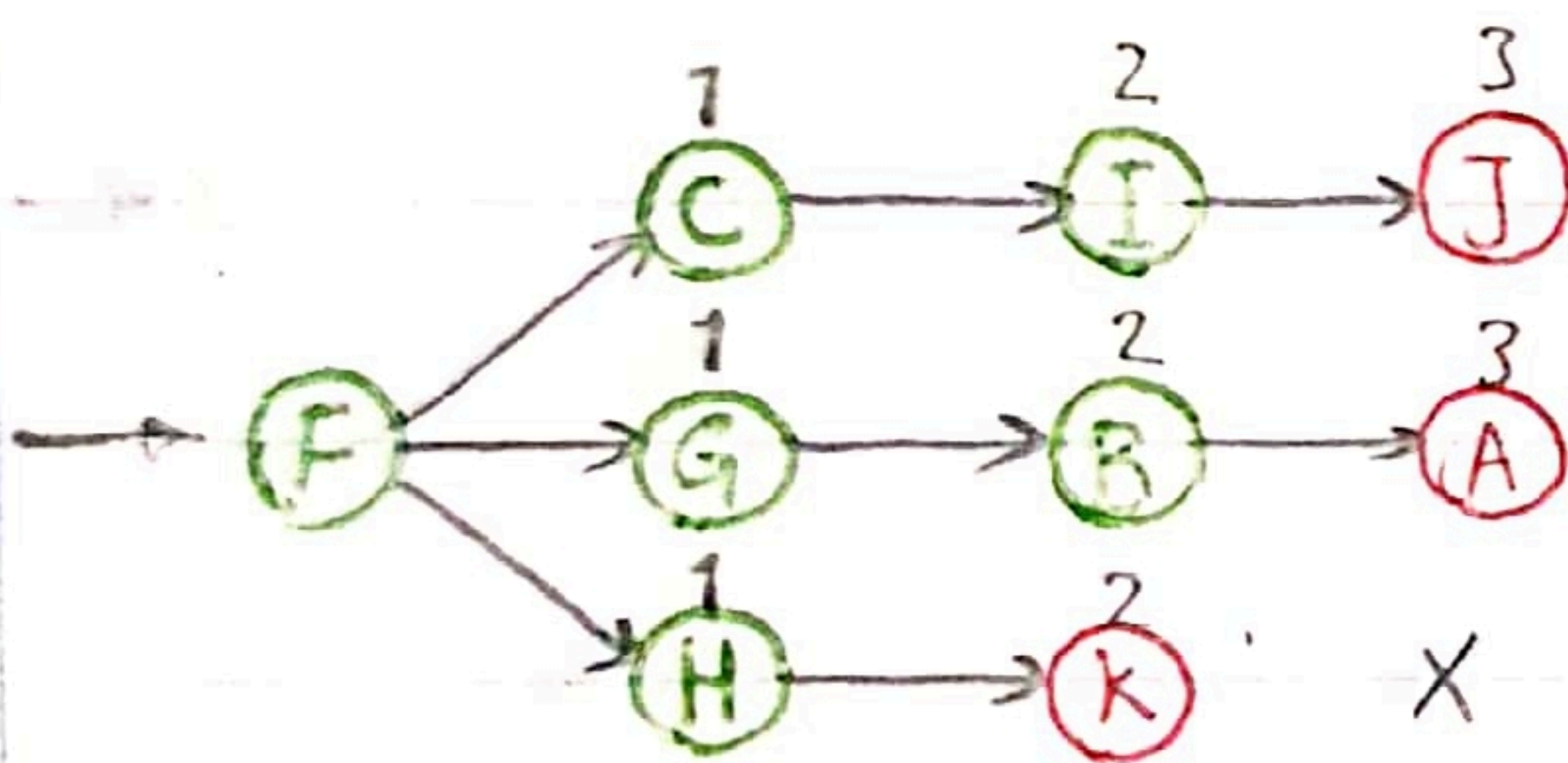
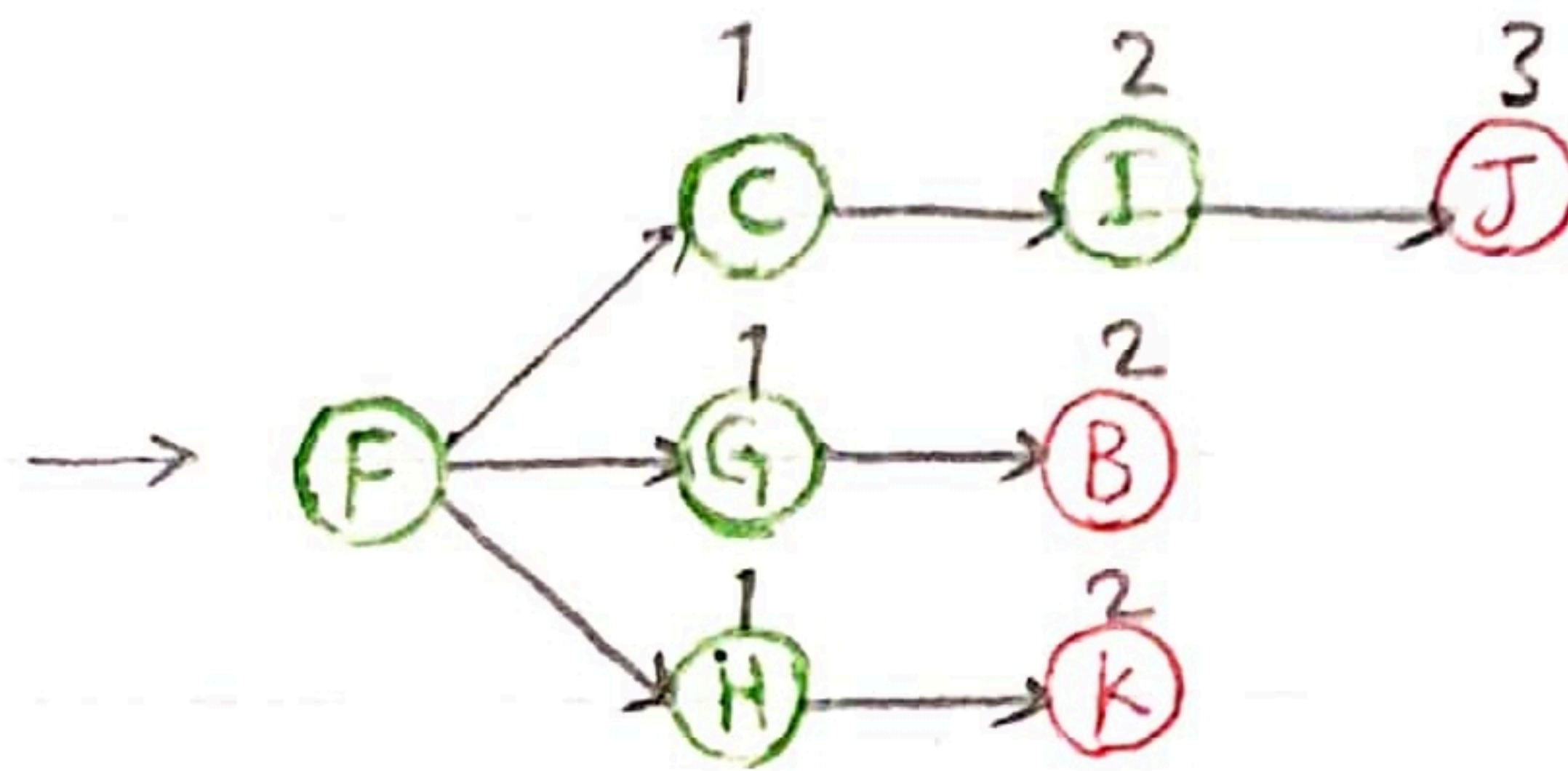
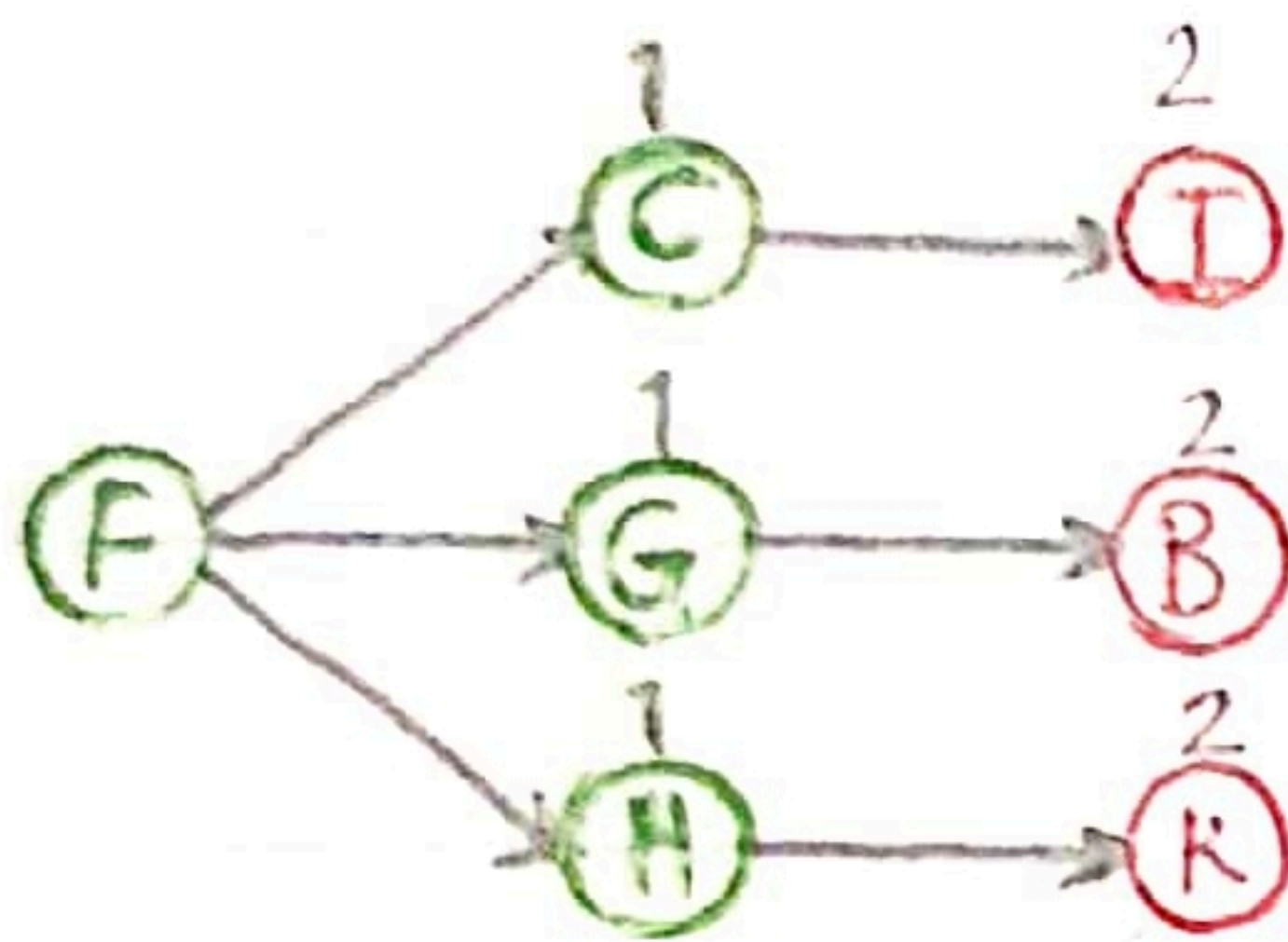
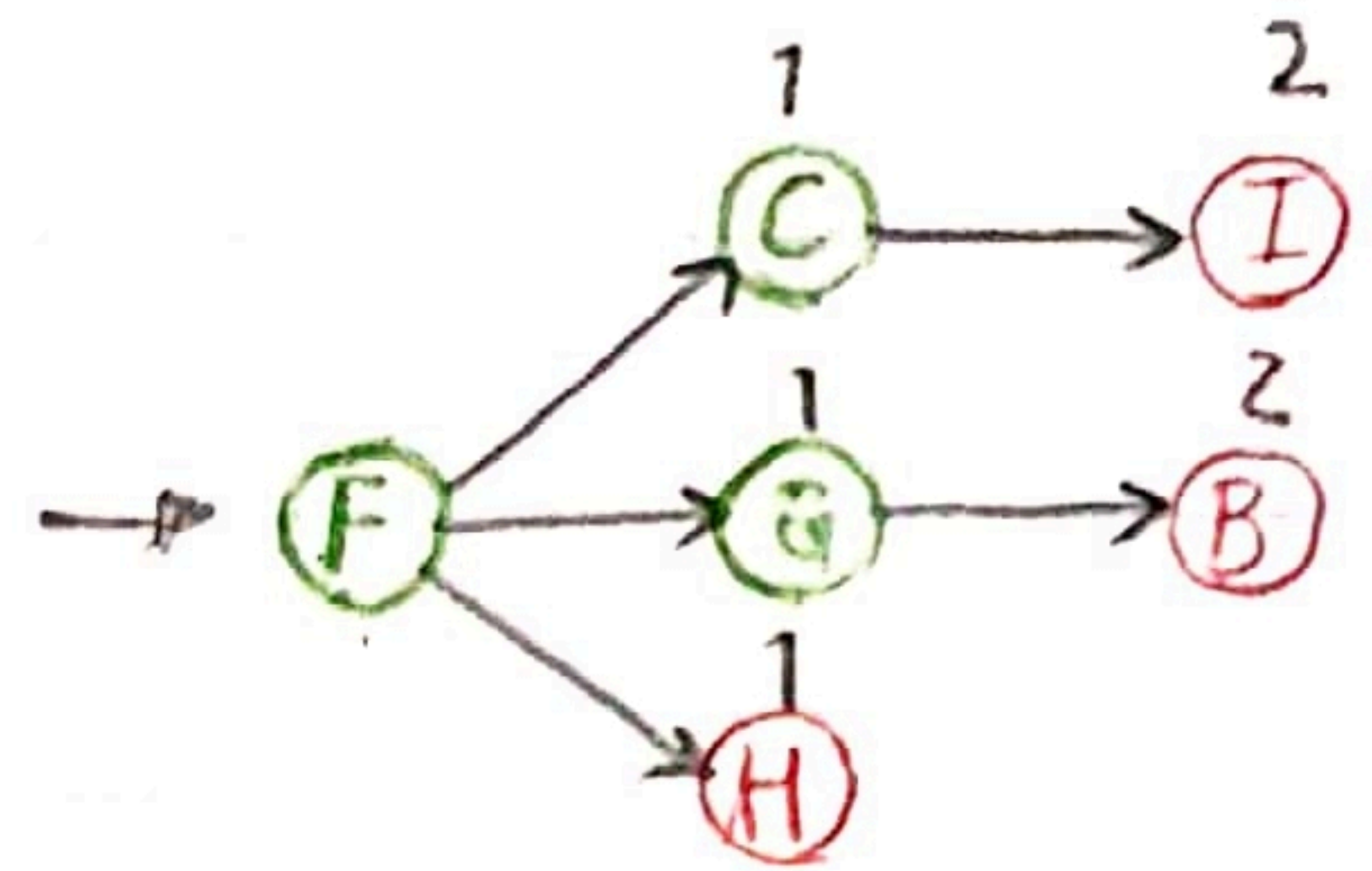
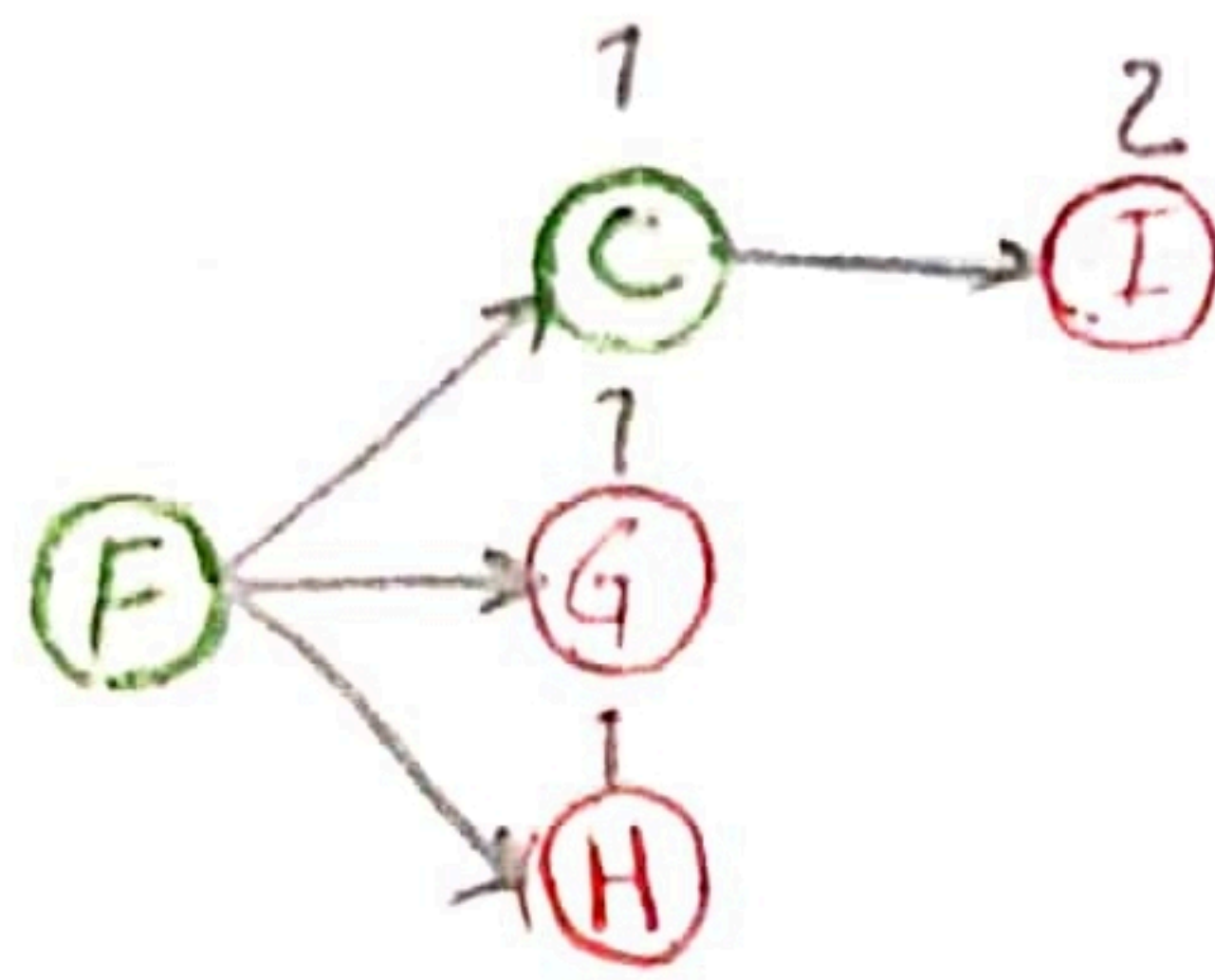


Shortest path:




```

graph LR
    F((F)) --> C((C))
    F --> G((G))
    F --> H((H))
    style F fill:#00FF00,stroke:#00FF00
    style C fill:#FF0000,stroke:#FF0000
    style G fill:#FF0000,stroke:#FF0000
    style H fill:#FF0000,stroke:#FF0000
  
```



Results: 1. FCIJD

F G B A D