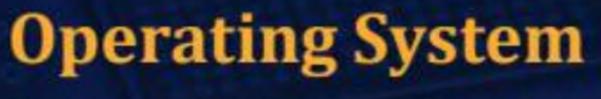
# CS & IT ENGINEERING



Process Synchronization / Coordination

DPP 10 (Discussion Notes)



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TOPICS TO BE COVERED

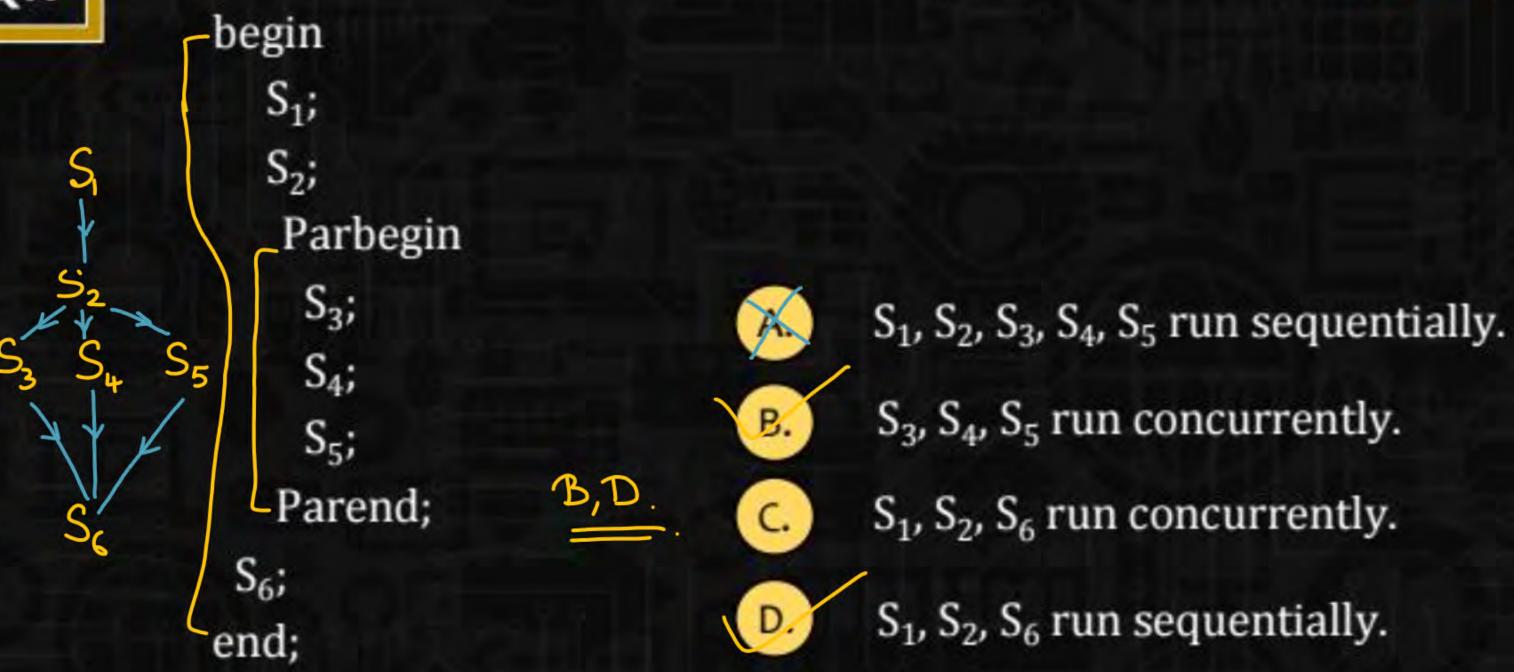
01 Question

02 Discussion

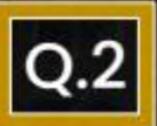


Consider the following concurrent program:



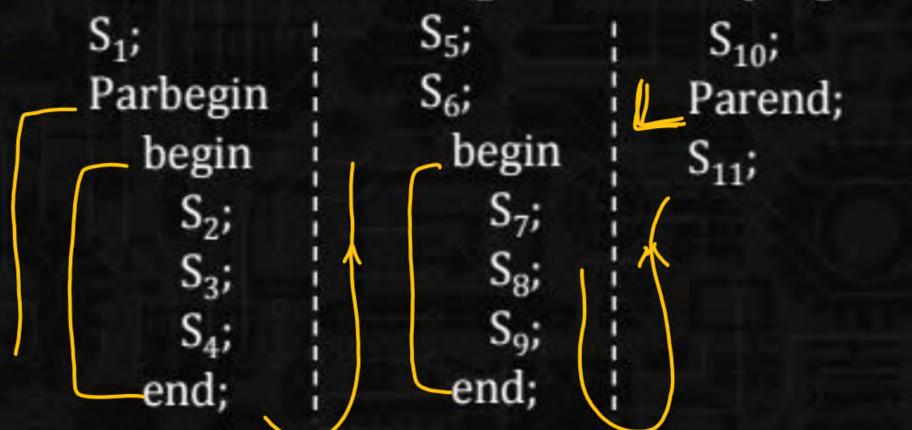


Which of the following statement is correct about above program?



# Consider the following concurrent program

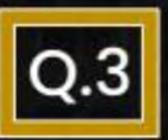




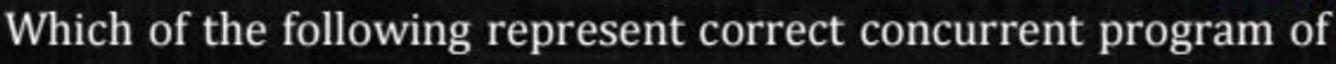
After S<sub>1</sub> how many statements will start concurrently?



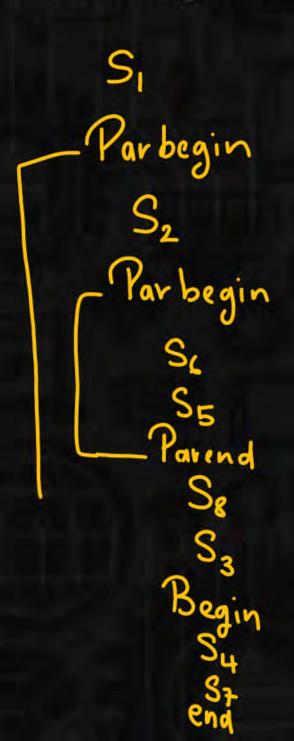


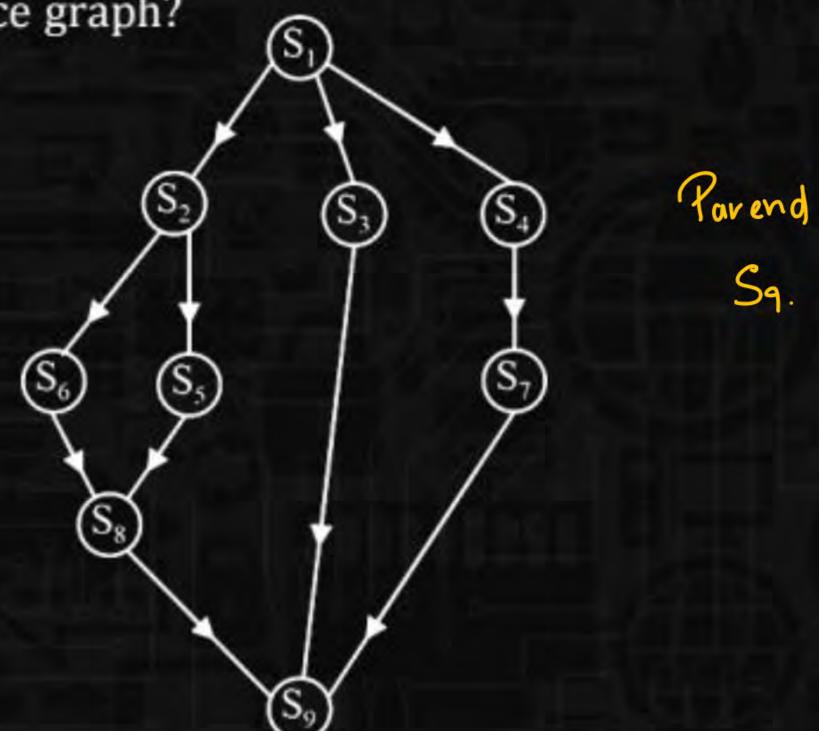


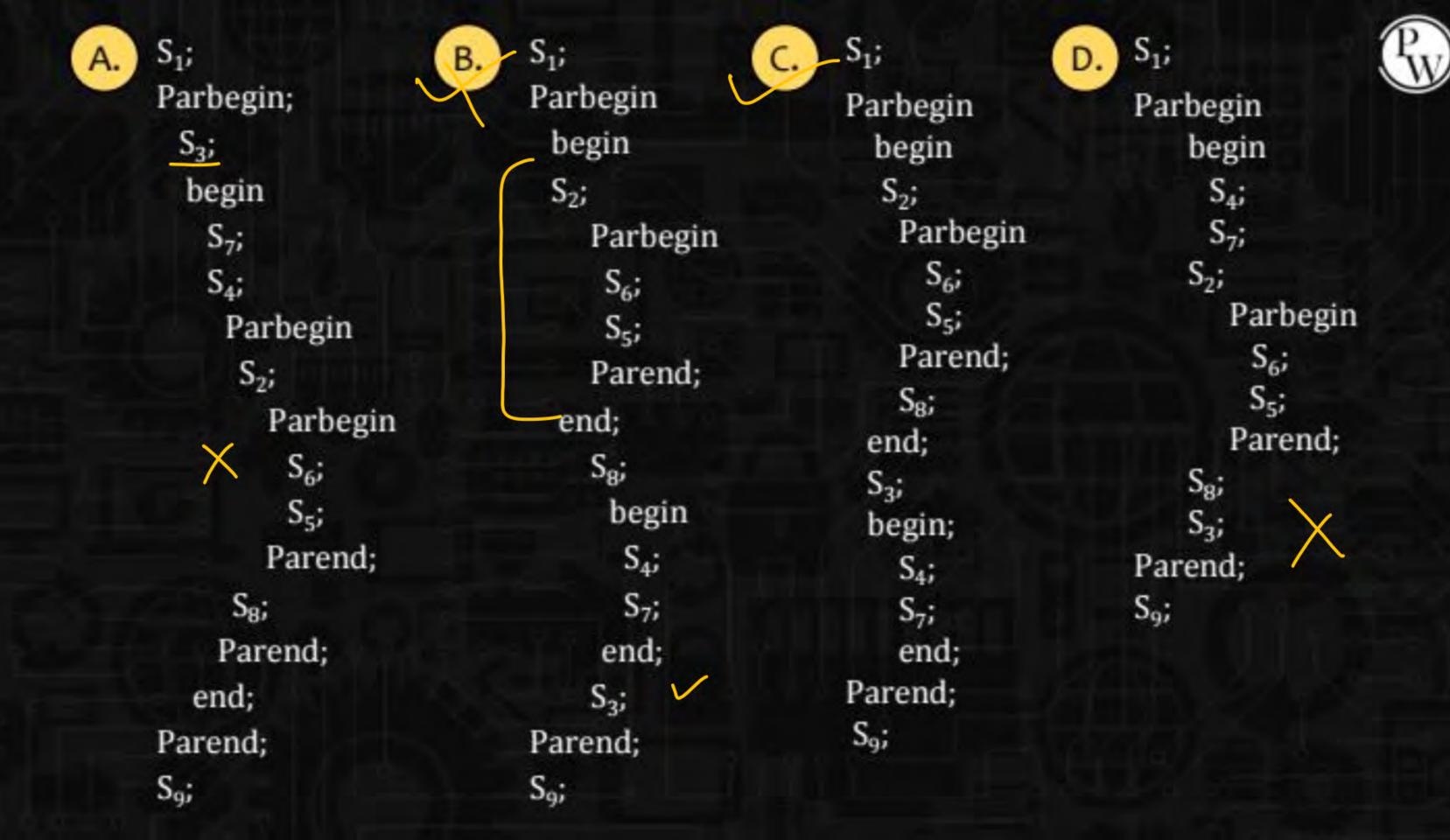
Consider the given precedence graph:

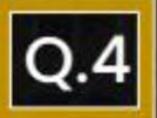


above precedence graph?









# Which of the following statements is/are correct?

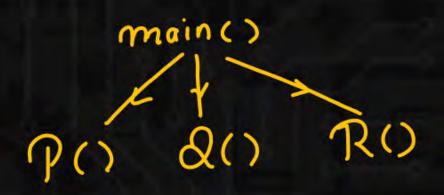


```
void P(void)
main()
     Parbegin
                           Parbegin
                               10;
           P();
           Q0;
                               20;
           R();
                               30;
    Parend;
                           Parend;
void Q(void)
                          void R(void)
                           Parbegin
 Parbegin
                               70;
    40;
    50;
                               80;
    60;
                               90;
 Parend;
                           Parend;
```

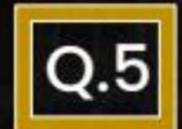
Which of the following output sequences are possible after the successful completion of P(), Q(), and R()?

- 123456789
- 412536798
- 415624789
- 976125623X





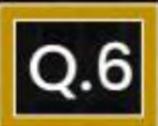
1() 2() 3() 4() 5() 6() 7() 8() 9()



Deadlock is \_\_\_\_\_

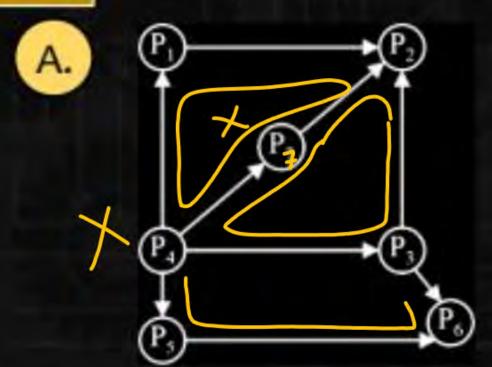


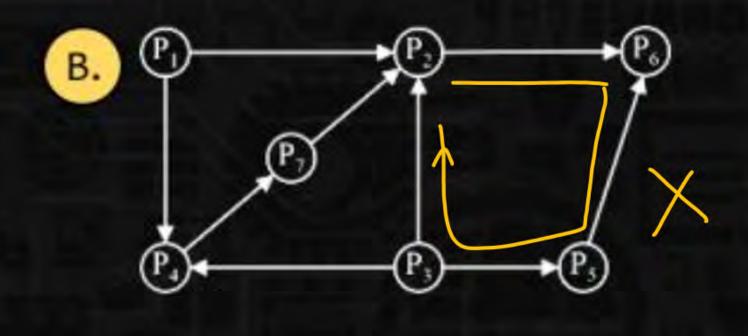
- A. Starvation X
- B. Blocking a process for defined time X
- Infinite waiting
- D. Utilization of CPU X

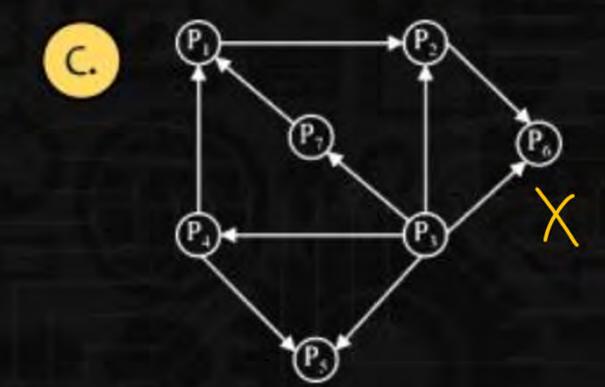


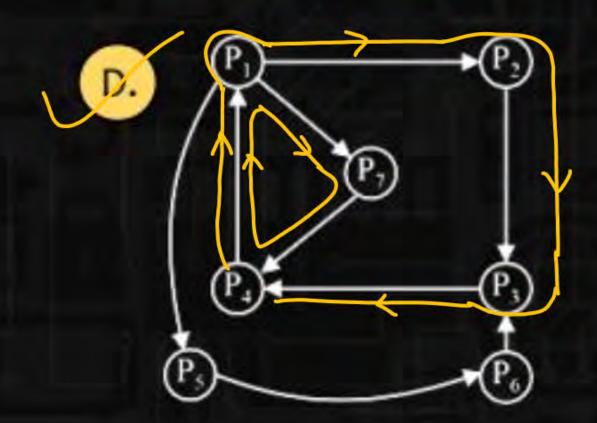
# Which of the following graph represents deadlock?









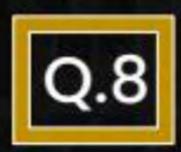




### Which of the following statement is/are correct?



- A. Deadlock is indefinite waiting.
- B. Deadlock is infinite waiting.
- c. Starvation is infinite waiting. X
- Starvation is indefinite waiting.



A problem encountered when a process is perpetually denied for indefinite time from necessary resources because that resource is currently used by another process. Such problem is known as

[MCQ

- A. Deadlock
- B. Ageing
- c. Infinite blocking
- D. Starvation



