

## I. 进程概念

1. ① A ② C ③ B ④ D

2. C 3. B 4. C

5. ~~单进程~~ 封闭性

6. ① 动 ② 静

7. 进程控制块(PCB)存在

8. ① 程序的并发执行 ② 进程

## II. 进程状态与转换

9. C 10. B 11. ① D ② B 12. C

13. A 14. A 15. A 16. A

17. B 18. ① C ② F 19. A 20. A

21. B 22. B 23. B

24. ① 等待(阻塞) ② 就绪 ③ 运行(执行)

25. ① 4 ② 0

26. ① 就绪 ② 进程调度程序 ③ 运行

## III 经典调度算法

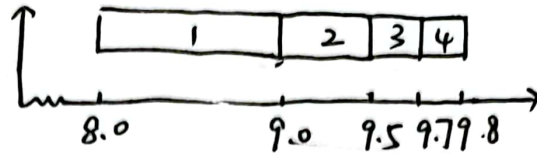
27. B 28. B 29. A 30. B

31. ① 抢占式 ② 非抢占式 32. 先来先服务

33.

33. (1) 对于先来先服务算法

其运行顺序为



$$\therefore \text{作业 1. } t_1 = 9.0 - 8.0 = 1.0$$

$$t_2 = 9.5 - 8.5 = 1.0$$

$$t_3 = 9.7 - 9.0 = 0.7$$

$$t_4 = 9.8 - 9.1 = 0.7$$

$$T = \frac{t_1 + t_2 + t_3 + t_4}{4} = 0.85$$

$$W_1 = \frac{1.0}{1.0} = 1.0$$

$$W_2 = \frac{1.0}{0.5} = 2.0$$

$$W_3 = \frac{0.7}{0.2} = 3.5$$

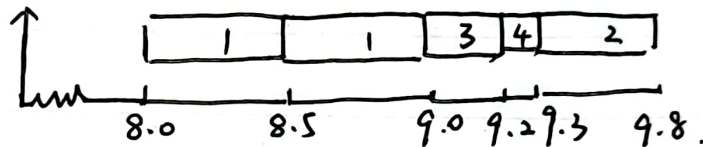
$$W_4 = \frac{0.7}{0.1} = 7$$

$$W = \frac{W_1 + W_2 + W_3 + W_4}{4} = 3.375$$

(2) 对于最短剩余时间优先.

一样继续!

其运行顺序为



$$\text{作业. } t_1 = 9.0 - 8.0 = 1.0$$

$$t_2 = 9.8 - 8.5 = 1.3$$

$$t_3 = 9.2 - 9.0 = 0.2$$

$$t_4 = 9.3 - 9.1 = 0.2$$

$$\therefore T = \frac{1.0 + 1.3 + 0.2 + 0.2}{4} = 0.675$$

$$W_1 = \frac{1.0}{1.0} = 1.0$$

$$W_2 = \frac{1.3}{0.5} = 2.6$$

$$W_3 = \frac{0.2}{0.2} = 1.0$$

$$W_4 = \frac{0.2}{0.1} = 2.0$$

$$W = \frac{1.0 + 2.6 + 1.0 + 2.0}{4} = 1.65$$

答 先来先服务  $T = 0.85$   $W = 3.375$

最短剩余时间优先  $T = 0.675$   $W = 1.65$