Problem description

- Consider a drive-in restaurant where carhops take orders and bring food to the car.
- Cars arrive in the manner shown in Table 2.11
- There are 2 carhops – Ali and Badu
- Ali is better able to do the job and works a bit faster than Badu.
- The distribution of their service times is shown in Tables 2.12 and 2.13

Table 2.11. Interarrival Distribution of Cars

Time between Arrivals (Minutes)	*Probability*	*Cumulative Probability*	*Random-Digit Assignment*
1	0.25	0.25	01–25
2	0.40	0.65	26–65
3	0.20	0.85	66–85
4	0.15	1.00	86–00

Table 2.12. Service Distribution of Ali

Service Time (Minutes)	*Probability*	*Cumulative Probability*	*Random-Digit Assignment*
2	0.30	0.30	01–30
3	0.28	0.58	31–58
4	0.25	0.83	59–83
5	0.17	1.00	84–00

Table 2.13. Service Distribution of Badu

Service Time (Minutes)	*Probability*	*Cumulative Probability*	*Random-Digit Assignment*
3	0.35	0.35	01–35
4	0.25	0.60	36–60
5	0.20	0.80	61–80
6	0.20	1.00	81–00

Problem description

- How well is the current arrangement working in the drive-in restaurant?