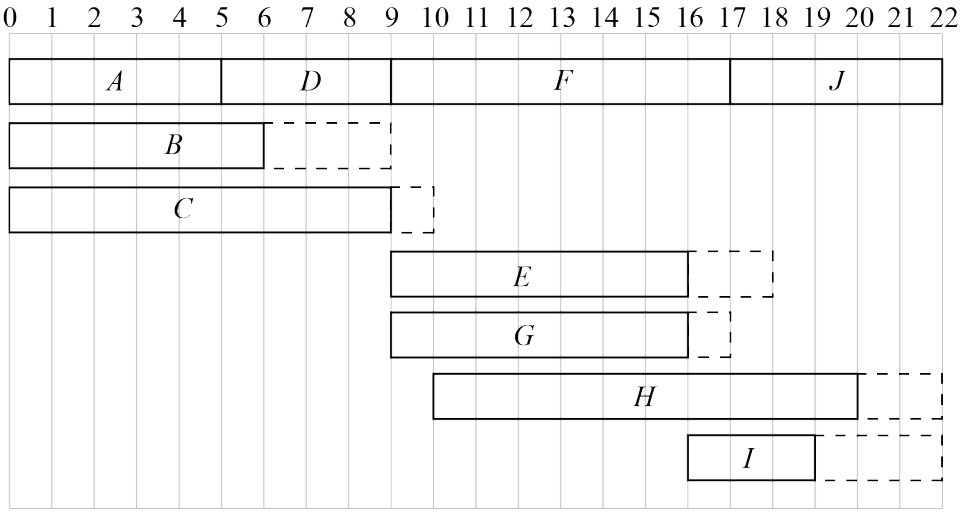
Exercise 6G

1 a

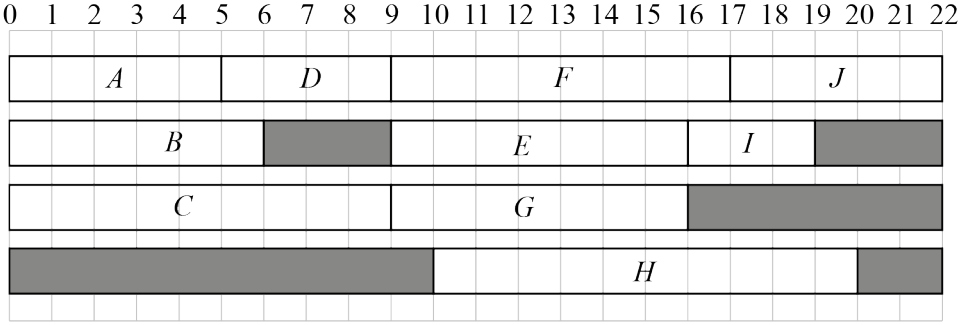


$\frac{\text{total duration}}{\text{critical time}} = \frac{64}{22} = 2.909...$ so lower bound = 3 workers.

b 2 hours is less than the total float for activity B (3 hours).

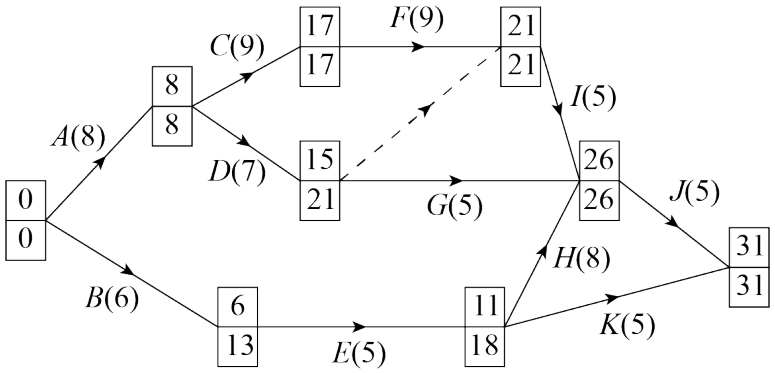
c J and H

d Many possible solutions are available, such as

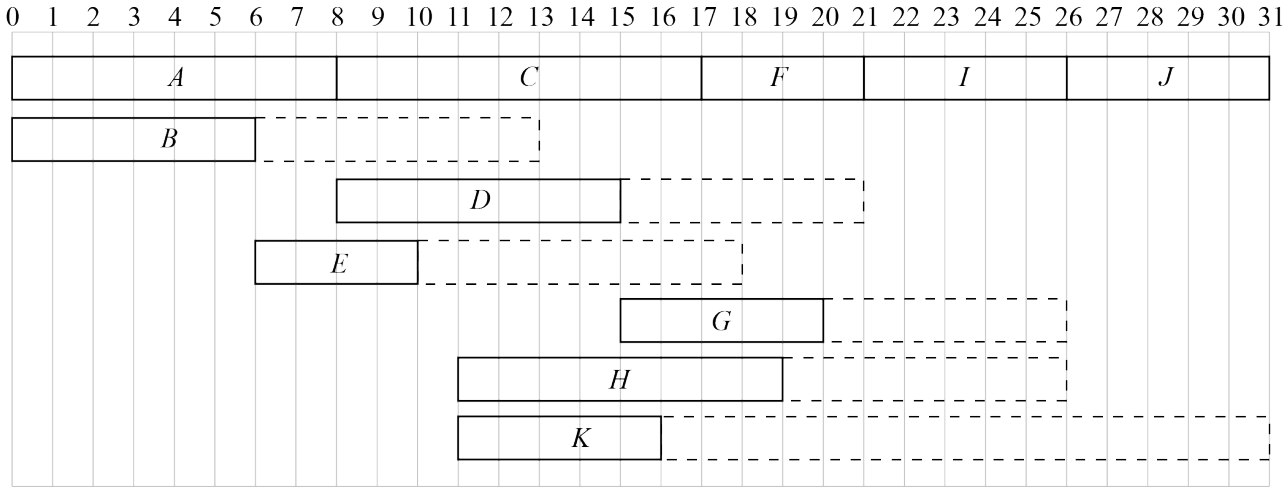


4 workers are required.

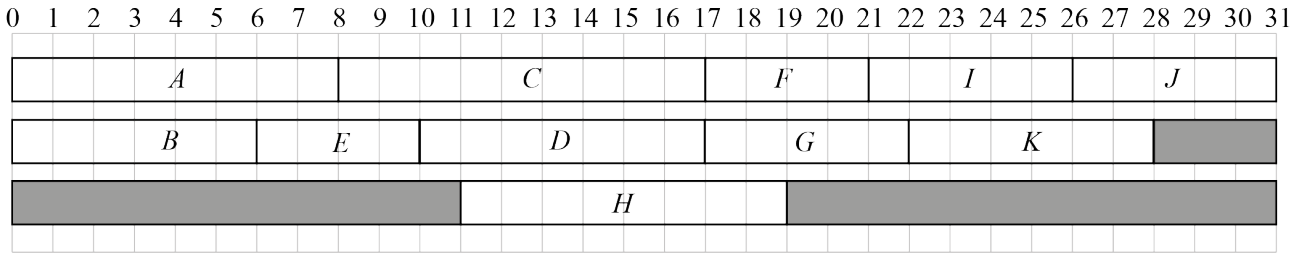
2 a



The Gantt chart for this activity network is:

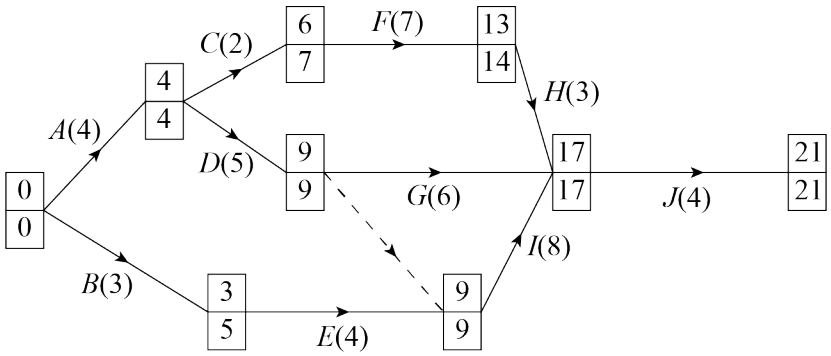


b Many possible solutions are available, such as

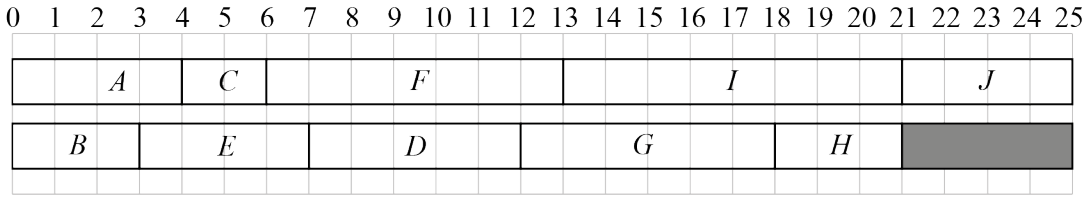


3 workers are needed to complete the project in the critical time.

3



Since only two workers are available for this project the scheduling diagram is:



The minimum time to complete the project using two workers is 25 days.