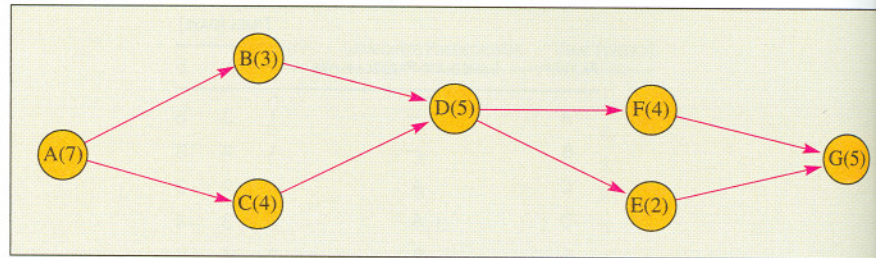


If you will save \$1,000 for each day that the earliest completion time is reduced, what action, if any, would you choose?

e. What is the probability that the project will take more than 30 days to complete?

8 Here is a network with the activity times shown in days:



a. Find the critical path.

b. The following table shows the normal times and the crash times, along with the associated costs for each activity.

ACTIVITY	NORMAL TIME	CRASH TIME	NORMAL COST	CRASH COST
A	7	6	\$7,000	\$8,000
B	3	2	5,000	7,000
C	4	3	9,000	10,200
D	5	4	3,000	4,500
E	2	1	2,000	3,000
F	4	2	4,000	7,000
G	5	4	5,000	8,000

If the project is to be shortened by four days, show which activities, in order of reduction would be shortened and the resulting cost.

9 The home office billing department of a chain of department stores prepares monthly inventory reports for use by the stores' purchasing agents. Given the following information, use the critical path method to determine

a. How long the total process will take.

b. Which jobs can be delayed without delaying the early start of any subsequent activity.

JOB AND DESCRIPTION	IMMEDIATE PREDECESSORS	TIME (HOURS)
a Start	—	0
b Get computer printouts of customer purchases	a	10
c Get stock records for the month	a	20
d Reconcile purchase printouts and stock records	b, c	30
e Total stock records by department	b, c	20
f Determine reorder quantities for coming period	e	40
g Prepare stock reports for purchasing agents	d, f	20
h Finish	g	0

10 For the network shown:

