

Rock'n Bands

A Project Management Decision-Making Game

Your company, Planners 'R Us, specializes in effectively managing projects. Previous experience has involved conference management systems, commercial construction, and software development projects.

A new, intriguing project offers another opportunity to apply your project management expertise. The university you are graduating from, Bahria, wishes to put together a music festival, "Rock'n Bands". This will feature a number of top music groups, and should attract interest from students, local residents, and music fans throughout Islamabad.

Your company has met with University officials to develop a list of activities required to make *Rock'n Bands* a reality. The table below includes twelve activities as well as their durations and immediate predecessors. The project plan is to draw a network diagram. The subscripts on each activity denote the number of weeks of work that activity is expected to require. Arrows denote the order of activities. For instance, activity E cannot be started until activity A is completed, and activity H cannot be started until both C and D are complete. The start and end nodes are dummy nodes and do not need to be worked on. Note that at the beginning of the project, activities A, C and D are available to start working on, as they have no predecessor activities. *Be sure to understand the diagram before reading further.*

Activity	Duration (weeks)	Immediate predecessors
A	3	-
B	5	C
C	2	-
D	3	-
E	1	A
F	4	D
G	1	E
H	3	C, D
I	5	F, H
J	4	E, B, H
K	5	G
L	2	F

Your job is to allocate workers to tasks each week during the project in such a way that you complete the project in minimum possible time. Planners 'R Us has also agreed to minimize the costs associated with the project. All tasks A-L must be completed. You have four (4) workers, although you do not need to use all of them every week – there are other tasks they can do in your company.

