The earliest time that each event may occur is listed below:
Event 0 : 0 unit time
Event 1 : 6 unit time
Event 2 : 4 unit time
Event 3 : 5 unit time
Event 4 : 7 unit time
Event 5 : 7 unit time
Event 6 : 16 unit time
Event 7 : 14 unit time
Event 8 : 18 unit time
The latest time that each event may occur is listed below:
Event 0 : 0 unit time
Event 1 : 6 unit time
Event 2 : 6 unit time
Event 3 : 8 unit time
Event 4 : 7 unit time
Event 5 : 10 unit time
Event 6 : 16 unit time
Event 7 : 14 unit time
Event 8 : 18 unit time
Following are the critical events:
Event 0
Event 1
Event 4
Event 6
Event 7
Event 8
The following is the list of critical activities for each critical
path:
a1 a4 a7 a10
a1 a4 a8 a11
The longest path in this activity network has a duration of:
18 unit time

The earliest time that each event may occur is listed below:
Event 0 : 0 unit time
Event 1 : 6 unit time
Event 2 : 4 unit time
Event 3 : 5 unit time
Event 4 : 7 unit time
Event 5 : 7 unit time
Event 6 : 16 unit time
Event 7 : 14 unit time
Event 8 : 18 unit time
Event 9 : 19 unit time
Event 10 : 19 unit time
Event 11 : 20 unit time
The latest time that each event may occur is listed below:
Event 0 : 0 unit time
Event 1 : 6 unit time

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Event 2 : 6 unit time
Event 3 : 8 unit time
Event 4 : 7 unit time
Event 5 : 10 unit time
Event 6 : 16 unit time
Event 7 : 14 unit time
Event 8 : 18 unit time
Event 9 : 19 unit time
Event 10 : 19 unit time
Event 11 : 20 unit time
Following are the critical events:
Event 0
Event 1
Event 4
Event 6
Event 7
Event 8
Event 9
Event 10
Event 11
The following is the list of critical activities for each critical
path:
a1 a4 a7 a10 a12 a14
a1 a4 a7 a10 a13 a15
a1 a4 a8 a11 a12 a14
a1 a4 a8 a11 a13 a15
The longest path in this activity network has a duration of:
20 unit time
------------------------------------------------------
Invalid input: Network has a cycle!
```