

Data Structure Assignment 7

Programming Homework: AOE Network

3. § [Programming project] Write a C program that allows the user to input an AOE network. The program should calculate and output the $early(i)$ and $late(i)$ times and the degree of criticality for each activity. If the project is not feasible, it should indicate this. If the project is feasible it should print out the critical activities in an appropriate format.

See the attached file for the Sample_input.txt

Sample Output:

activity	early time	late time	slack
	e	l	$l - e$
a_1	0	0	0
a_2	0	2	2
a_3	0	3	3
a_4	6	6	0
a_5	4	6	2
a_6	5	8	3
a_7	7	7	0
a_8	7	7	0
a_9	7	10	3
a_{10}	16	16	0
a_{11}	14	14	0

$a_i \ \forall i = 1, 2, \dots, 11$ can be represent by (x,y), which x and y are the node ID.

Slack is the degree of criticality for each activity

General Information:

- Deadline : 2017/01/13 23:55.
- Read the class rules we have posted before you hand in the homework.
- Upload your assignment to Moodle system.
- Upload file format: Student-Id_Name.rar , Ex.P76991094_王小明.rar
- Your file should consist of the following items: **Source Code & Readme file**
(Program description)
- Late homework will not be accepted.
- Any copies will be scored as zero. Do not plagiarize
- If you didn't use the corresponding input method, you will not get any point.