Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2020

Course: IT application in Exploration and Production **Semester:** IV **Course Code:** CSOG 3002 **Time:** 2 hrs

Programme: B.Tech Computer Science in OGI Max. Marks: 120

Instructions: Attempt all question and all question carries equal 2 Marks

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9	М	Which of the	Natural	Incor	Hydropo	Incor	Elctric	Incor	All of	Corr
	С	following asset	Gas	rect	wer	rect	realibility	rect	the	ect
		are regulated	pipelin		licensing				Above	
		by FERC	e							
1	М	Which of the	Regulat	Corr	Regulates	Incor	Ensures	Incor	Monitor	Incor
0	С	following	ion of	ect	the	rect	the safe	rect	s and	rect
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1	M	Which indian	ONGC	Incor	MENAT	Corr	HP	Incor	Reliance	Incor
1	С	company is		rect		ect		rect	OIL	rect
1	N 4	part of PDIX Which of the	501.60	Incor	COL 70	Incor	COL 90	Incor	COL 02	Corr
1	M		SQL-60	Incor	SQL-78	Incor	SQL-89	Incor	SQL-92	Corr
2	С	following SQL		rect		rect		rect		ect
		standard is								
		deployed in PPDM								
1	М	Which of the	Trends	Incor	Script	Incor	Middlew	Corr	Security	Incor
3	C	following is not	Henus	rect	Script	rect	are	ect	Security	rect
		a feature of		1000		1000	uic			1000
		SCADA system								
1	Т	EOLCS stand	TRUE	FALS						
4	F	for Engine Oil		E						
'		Licensing and		_						
		Certification								
		System.								
1	М	Distributed	2nd	Corr	1st	Incor	3rd	Incor	4th	Incor
5	С	SCADA system		ect		rect		rect		rect
		is which								
		generation of								
		SCADA system								
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1 6	M C	Which of following communicatio n protocol used in SCADA system:	MODB US	Incor rect	FIELDBUS	Incor rect	PROFIBU S	Incor rect	All of the Above	Corr ect
7	M C	Electromagneti c spectrum contains:	Infrare d rays (wave length < 10?? m)	Incor rect	Ultraviole t rays (wave length < 10?? m)	Incor rect	Gamma rays (wave length < 10? ¹ ? m)	Incor rect	All of the Above	Corr ect
8	M C	Which of the following are disadvantage of GIS system	Accura cy improv ement	Incor rect	Data can be managed efficientl y	Incor rect	Low cost/ben efit ratio	Corr ect	Time minimiz ation	Incor rect
9	M C	Which of the following is the disadvantage of Vector data	The locatio n of each vertex needs to be stored explicitl y	Corr	Accurate geograph ic location of data is maintain ed.	Incor rect	Since most data, e.g. hard copy maps, is in vector form no data conversio n is required.	Incor rect	Data can be represe nted at its original resolutio n and form without generali zation.	rect
2 0	M C	Which of the following is the advantage of Raster data	The cell size determ ines the resoluti on at which the data is represe nted.	Incor	Raster maps normally reflect only one attribute or character istic for an area.	Incor	Most output maps from grid-cell systems do not conform to high- quality cartograp hic needs.	Incor	Discrete data, e.g. forestry stands, is accomm odated equally well as continuo us data, e.g. elevatio n data, and facilitate s the integrati ng of the two	Corr

									data	
									types.	
2	M C	GIS in not used in which of the following application in exploration	Basin analysi s	Incor rect	Calculati on of hydrocar bon yield	Corr ect	Integarti ng with other data	Incor rect	Visulizati on	Incor rect
2 2	T F	Aperiodic jobs have soft or no deadlines	TRUE	FALS E						
3	M C	Who is the father of Al	John McCart hy	Incor rect	Alan Turning	Corr ect	Allen Newell	Incor rect	Fisher Ada	Incor rect
2	M C	Which is not a property of representation of knowledge	Inferen tial Adequa cy	Incor rect	Represen tational Adequac y	Incor rect	Represen tational Verificati on	Corr ect	Inferenti al Efficienc y	Incor rect
5	M C	The first Al programming language was called	BASIC	Incor rect	FORTRAN	Incor rect	IPL	Corr ect	LISP	Incor rect
6	M C	What is the term used for describing the judgmental or commonsense part of problem solving?	Critical	Incor rect	Value Based	Incor rect	Analytical	Incor rect	Heuristic	Corr ect
7	M C	What was originally called the "imitation game" by its creator?	The Turing Test	Corr ect	LISP	Incor rect	The Logic Theorist	Incor rect	Cyberne tics	Incor rect
2 8	M C	Al technique that allows computers to understand associations and relationships between objects and events is called:	Heurist ic Process ing	Incor rect	Cognitive science	Incor rect	Pattern Matching	Corr	relative symbolis m	Incor rect
2 9	M C	the field that investigates the mechanics of human intelligence is	history	Incor rect	psycholo gy	Incor rect	cognitive Science	Corr ect	sociolog y	Incor rect

3 0	M C	Which of the following is considered to be a pivotal event in the history of Al.	1956, Dartmo uth Univers ity Confer ence Organiz ed by John McCart hy Proximi	Corr	1961, Compute r and Compute r Sense.	Incor	1950, Computi ng Machiner y and Intelligen ce.	Incor rect	1949, Donald O, The organiza tion of Behavior	Incor
1	C	undertaken to find the union of festures are	ty	rect	Overlay	ect	burrer	rect	the above	rect
3 2	С	Application where GIS is not used in Oil and Gas	Sesmic Mappin g	Incor rect	Land/Lea se Manage ment	Incor rect	Compitat or Analysis	Incor rect	Rock Taxono my	Corr ect
3	M C	Which of the following is related to GIS	Raman ujan space	Incor rect	Pythagori an space	Incor rect	Euclidean space	Corr ect	Manhat an Space	Incor rect
3 4	T F	GeoReferencin g and Geo Rectification are the same concepts	FALSE	TRU E						
3 5	M C	Spetral Resolution of Hyperspetral Remote Sening	5-10 nm	Corr ect	2-3 nm	Incor rect	10-15 nm	Incor rect	15-20 nm	Incor rect
3 6	M C	effect responsible of leaking of Oil on earth surface is called	Migrati on	Incor rect	Drift	Incor rect	Chimney Effect	Corr ect	transfer effect	Incor rect
3 7	M C	Which of the foolwing in not surface geochemical expression due to hydrocarbon	paraffi n dirt	Incor rect	formatio n of calcite	Incor rect	Formatio n of Ferric Oxide	Corr ect	Concent ration of Methan	Incor rect
3	M C	Hydrocarbon Index is foused sround which wavelength	1865 nm	Incor rect	1750 nm	Incor rect	1730 nm	Corr ect	1710 nm	Incor rect

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3	M	Kaolinite	2.16	Corr	2.10	Incor	2.05	Incor	2.3	Incor
9	С	present strong	microm	ect	micromet	rect	micromet	rect	microme	rect
		absroption	eter		er		er		ter	
		feature								
		centered at			_					
4	М	What is the	Critical	Incor	Value	Incor	Analytical	Incor	Heuristic	Corr
0	С	term used for		rect	Based	rect		rect		ect
		describing the								
		judgmental or								
		commonsense								
		part of								
		problem								
		solving								
4	M	Which of the	Anabas	Incor	Allium	Corr	Allium	Incor	All of	Incor
1	С	following is not	is Salsa	rect	сера	ect		rect	the	rect
		a Hydrocarbon							Above	
		indicator								
1	N 4	Plants Which of the	Coloita	le sc :-	no unit o	le sc:	Luro missione	le ec :-	VII of	Com
4	M		Calcite	Incor	pyrite	Incor	uranium	Incor	All of	Corr
2	С	following		rect		rect		rect	the	ect
		mineral							Above	
		formation are associated								
		with								
		hydrocarbon								
4	М	Upper range of	1730	Incor	1690 nm	Incor	2310 nm	Corr	2467 nm	Incor
3	C	SWIR band is	nm	rect	1030 11111	rect	231011111	ect	2407 11111	rect
4	T	If hydrocarbon	TRUE	FALS		1000				1000
4	F	bearing	11.02	E						
-	-	material is		_						
		present at the								
		surface, the								
		value of HI >0								
4	Т	Remote	TRUE	FALS						
5	F	sensing has the		E						
		potential to								
		detect								
		hydrocarbon-								
		induced								
		alteration in								
		rocks, soils								
		and								
		vegetation.								
4	М	There are 10	1	Incor	0	Incor	2	Corr	3	Incor
6	С	jobs to be		rect		rect		ect		rect
		executed								
		under the								
		given hard								
		real-time								
		system i.e. J1,								
		J2, J3, J4, J5,								

Is,J7,J8,J9,J10 Each job has the release time and absolute deadline respectively (2,0,3,3,2,4,4,9,7,9) and deadline (7,3,10,6,10,6,10,13,10,16) respectively. The precedence and successor relation of the job as follows: 1) J6 is a successor of J3 and J4, 2) J7 is a successor of J8, 4) J3 is a successor of J8, 4) J3 is a successor of J8, 4) J3 is a successor of J8, 6) J4 and J9 are the predecessor of J8, 6) J4 and J9 are the predecessor of J8, and 7) J1 is the predecessor of J2. Now if the execution time of each job is 1 cycle then what will be the release time of J2 4 M There are 10 J2 Incor rect executed under the		1		ı			1	ı		1	
the release time and absolute deadline respectively (2,0,3,3,2,44,9,7,9) and deadline (7,3,10,6,10,6,10,13,10,16) respectively. The precedence and successor relation of the job as follows: 1) JG is a successor of 14, 3) J10 is a successor of 14, 3) J10 is a successor of 18, 4) J3 is a successor of 19, 5) S and J2 are the predecessor of 14, 6) J4 and J9 are the predecessor of 12. Now if the execution time of each job is 1 cycle then what will be the release time of J2 4 M There are 10 J2 Incor rect executed under the											
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,7,9) and deadline (7,3,10,6,10,6, 10,13,10,16) respectively. The precedence and successor relation of the job as follows: 1) 16 is a successor of J4, 3) J10 is a successor of J8, 4) J3 is a successor of J8, 4) J3 is a successor of J4, 6) J4 and J9 are the predecessor of J4, 6) J4 and J9 are the predecessor of J8, and 7) J1 is the predecessor of J2. Now if the execution time of each job is 1 cycle then what will be the release time of J2 4 M There are 10 J2 Incor rect rect rect ect rect rect rect rect											
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of each job is 1 cycle then what will be the release time of J2 4 M There are 10 C jobs to be executed under the			J2. Now If the								
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4 M There are 10 J2 Incor 7 C jobs to be executed under the J2 Incor 7 Incor 7 C incor 10 Incor 11 Incor 7 Inc											
7 C jobs to be executed under the rect rect rect rect rect rect	1	ŊΛ		12	Incor	l1	Incor	IΔ	Corr	13	Incor
executed under the				12) <u>1</u>		"		,,,	
under the	'				1600		1600		ECL		Tect
given hard			_								
real-time											
system i.e. J1,			*								
J2, J3, J4, J5,											
J6,J7,J8,J9,J10			J6,J7,J8,J9,J10								

					I	1	T		I	
		Each job has								
		the release								
		time and								
		absolute								
		deadline								
		respectively								
		(2,0,3,3,2,4,4,9								
		,7,9) and								
		deadline								
		(7,3,10,6,10,6,								
		10,13,10,16)								
		respectively.								
		The								
		precedence								
		and successor								
		relation of the								
		job as follows:								
		1) J6 is a								
		successor of J3								
		and J4, 2) J7 is								
		a successor of								
		J4, 3) J10 is a								
		successor of								
		J8, 4) J3 is a								
		successor of								
		J2, 5) J5 and J2								
		are the								
		predecessor of								
		J4, 6) J4 and J9								
		are the								
		predecessor of								
		J8, and 7) J1 is								
		the								
		predecessor of J2. Now If the								
		execution time								
		of each job is 1								
		cycle then								
		name of Job								
		who's release								
		time and								
		deadline								
		doesn't change								
4	М	There are 10	0	Incor	2	Incor	1	Corr	3	Incor
8	С	jobs to be		rect		rect		ect		rect
		executed								
		under the								
		given hard								
		real-time								
		system i.e. J1,								
		J2, J3, J4, J5,								
ш		. , , , ,			l	<u> </u>	1		l .	

		16 17 10 10 110	I	Π			<u> </u>			
		J6,J7,J8,J9,J10 								
		Each job has								
		the release								
		time and								
		absolute								
		deadline								
		respectively								
		(2,0,3,3,2,4,4,9								
		,7,9) and								
		deadline								
		(7,3,10,6,10,6,								
		10,13,10,16)								
		respectively.								
		The								
		precedence								
		and successor								
		relation of the								
		job as follows:								
		1) J6 is a								
		successor of J3								
		and J4, 2) J7 is								
		a successor of								
		J4, 3) J10 is a								
		successor of								
		J8, 4) J3 is a								
		successor of								
		J2, 5) J5 and J2								
		are the								
		predecessor of								
		J4, 6) J4 and J9								
		are the								
		predecessor of								
		· ·								
		J8, and 7) J1 is								
		the								
		predecessor of								
		J2. Now If the								
		execution time								
		of each job is 1								
		cycle thenhow								
		many								
		remaining								
		clock cycle is								
		left for J5								
4	М	There are 10	J6	Corr	J1	Incor	J3	Incor	J9	Incor
9	С	jobs to be		ect		rect		rect		rect
	_	executed								
		under the								
		given hard								
		real-time								
		system i.e. J1,								
1		J2, J3, J4, J5,								

				ı	1	1	T		I	
		J6,J7,J8,J9,J10								
1		Each job has								
		the release								
		time and								
		absolute								
		deadline								
		respectively								
		(2,0,3,3,2,4,4,9								
		,7,9) and								
		deadline								
		(7,3,10,6,10,6,								
		10,13,10,16)								
		respectively.								
		The								
		precedence								
1		and successor								
1		relation of the								
		job as follows:								
		1) J6 is a								
		successor of J3								
		and J4, 2) J7 is								
		a successor of								
		J4, 3) J10 is a								
		successor of								
		J8, 4) J3 is a								
		successor of								
		J2, 5) J5 and J2								
		are the								
		predecessor of								
		J4, 6) J4 and J9								
		are the								
		predecessor of								
		J8, and 7) J1 is								
		· ·								
1		the								
		predecessor of								
		J2. Now If the								
		execution time								
		of each job is 1								
		cycle then								
		name of Jobs								
		who will miss								
		their deadline								
		based on EDF								
1										
_		order			_				_	
5	M	There are 10	0	Incor	3	Incor	1	Incor	2	Corr
0	С	jobs to be		rect		rect		rect		ect
1		executed								
		under the								
		given hard								
		real-time								
		system i.e. J1,								
	l	Systemmer, JI,				l	L		<u> </u>	

			T			ı	1		,	
		J2, J3, J4, J5,								
		J6,J7,J8,J9,J10								
		Each job has								
		the release								
		time and								
		absolute								
		deadline								
		respectively								
		(2,0,3,3,2,4,4,9								
		,7,9) and								
		deadline								
		(7,3,10,6,10,6,								
		10,13,10,16)								
		respectively.								
		The								
		precedence								
		and successor								
		relation of the								
		job as follows:								
		1) J6 is a								
		successor of J3								
		and J4, 2) J7 is								
		a successor of								
		J4, 3) J10 is a								
		successor of								
		J8, 4) J3 is a								
		successor of								
		J2, 5) J5 and J2								
		are the								
		predecessor of								
		J4, 6) J4 and J9								
		are the								
		predecessor of								
		J8, and 7) J1 is								
		the								
		predecessor of								
		J2. Now what								
		will be the								
		Level of J9								
5	М	There are 10	J3	Incor	J4	Corr	J6	Incor	J8	Incor
1	C	jobs to be	,,,	rect) ,	ect	30	rect	10	rect
1	٦	executed		1600		ECL		TECL		TECL
		under the								
		given hard								
		real-time								
		system i.e. J1,								
		J2, J3, J4, J5,								
		J6,J7,J8,J9,J10								
		Each job has								
		the release								
		time and								
			L		0	·	1			

				1				1		
		absolute								
		deadline								
		respectively								
		(2,0,3,3,2,4,4,9								
		,7,9) and								
		deadline								
		(7,3,10,6,10,6,								
		10,13,10,16)								
		respectively.								
		The								
		precedence								
		and successor								
		relation of the								
		job as follows:								
		1) J6 is a								
		successor of J3								
		and J4, 2) J7 is								
		a successor of								
		J4, 3) J10 is a								
		successor of								
		J8, 4) J3 is a								
		successor of								
		J2, 5) J5 and J2								
		are the								
		predecessor of								
		J4, 6) J4 and J9								
		are the								
		predecessor of								
		J8, and 7) J1 is								
		the								
		predecessor of								
		J2. Now If the								
		execution time								
		of each job is 1								
		cycle then as								
		per EDF order,								
		job after J5								
5	М	There are 10	J7	Corr	J6	Incor	J3	Incor	J8	Incor
2	C	jobs to be	3,	ect	30	rect	,,,	rect	30	rect
		executed		ECL		1600		1600		TECL
		under the								
		given hard								
		real-time								
		system i.e. J1,								
		J2, J3, J4, J5,								
		J6,J7,J8,J9,J10								
		Each job has								
		the release								
		time and								
		absolute								
		deadline								
		ucauiiiie				<u> </u>				

		respectively								
		(2,0,3,3,2,4,4,9								
		,7,9) and								
		deadline								
		(7,3,10,6,10,6,								
		10,13,10,16)								
		respectively.								
		The								
		precedence								
		and successor								
		relation of the								
		job as follows:								
		1) J6 is a								
		successor of J3								
		and J4, 2) J7 is								
		a successor of								
		J4, 3) J10 is a								
		successor of								
		J8, 4) J3 is a								
		successor of								
		J2, 5) J5 and J2								
		are the								
		predecessor of								
		J4, 6) J4 and J9								
		are the								
		predecessor of								
		J8, and 7) J1 is								
		the								
		predecessor of								
		J2. Now If the								
		execution time								
		of each job is 1								
		cycle then as								
		per EDF order,								
		job after J4 if								
		job with								
		missed								
		deadline is not								
		considered.								
5	М	There are 10	J10	Incor	J7	Incor	J9	Corr	J5	Incor
			110		1/		בנ		10	
3	С	jobs to be		rect		rect		ect		rect
		executed								
		under the								
		given hard								
		real-time								
		system i.e. J1,								
		J2, J3, J4, J5,								
		J6,J7,J8,J9,J10								
		Each job has								
		the release								
		time and								
	<u> </u>	anne and								

		absolute								
		deadline								
		respectively								
		(2,0,3,3,2,4,4,9								
		,7,9) and								
		deadline								
		(7,3,10,6,10,6,								
		10,13,10,16)								
		respectively.								
		The								
		precedence								
		and successor								
		relation of the								
		job as follows:								
		1) J6 is a								
		successor of J3								
		and J4, 2) J7 is								
		a successor of								
		J4, 3) J10 is a								
		successor of								
		J8, 4) J3 is a								
		successor of								
		J2, 5) J5 and J2								
		are the								
		predecessor of								
		J4, 6) J4 and J9								
		are the								
		predecessor of								
		J8, and 7) J1 is								
		the								
		predecessor of								
		J2. Now If the								
		execution time								
		of each job is 1								
		cycle then on								
		the basis of								
		priority; job								
		that will be								
-	N 4	follow job J6	17	lane - :	10	las e e e	10	C =	14.0	1
5	M		J7	Incor	J8	Incor	J9	Corr	J10	Incor
4	С	jobs to be		rect		rect		ect		rect
		executed								
		under the								
		given hard								
		real-time								
		system i.e. J1,								
		, J2, J3, J4, J5,								
		J6,J7,J8,J9,J10								
		Each job has								
		the release								
		time and								
	<u> </u>	unie anu					<u> </u>			

absolute deadline respectively (2.0,3,3,2,4,4,9 ,7,9) and deadline (7,3,10,6,10,6, 10,13,10,16) respectively. The precedence and successor relation of the job as follows: 1) 16 is a successor of 14, 3) 110 is a successor of 18, 4) 13 is a successor of 18, 4) 13 is a successor of 19, 5) 15 and 12 are the predecessor of 14, 6) 14 and 19 are the predecessor of 18, and 7) 11 is the predecessor of 12. Now if the execution time of each job is 2 cycle then which of the following job will miss their
respectively (2,0,3,3,2,4,4,9 ,7,9) and deadline (7,3,10,6,10,6, 10,13,10,16) respectively. The precedence and successor relation of the job as follows: 1) J6 is a successor of J3 and J4, 2) J7 is a successor of J4, 3) J10 is a successor of J8, 4) J3 is a successor of J8, 4) J3 is a successor of J2, 5) J5 and J2 are the predecessor of J4, 6) J4 and J9 are the predecessor of J8, and 7) J1 is the predecessor of J2. Now If the execution time of each job is 2 cycle then which of the following job will miss their
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5 C jobs to be ect rect rect rect
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real-time
system i.e. J1,
J2, J3, J4, J5,
J6,J7,J8,J9,J10
Each job has
the release
time and

		absolute deadline respectively (2,0,3,3,2,4,4,9,7,9) and deadline (7,3,10,6,10,6,10,13,10,16) respectively. The precedence and successor relation of the job as follows: 1) J6 is a successor of J3 and J4, 2) J7 is a successor of J4, 3) J10 is a successor of J2, 5) J5 and J2 are the predecessor of J4, 6) J4 and J9 are the predecessor of J8, and 7) J1 is the predecessor of J2. Now If the execution time of each job is 2 cycle then the								
5 6	M C	How many type of attribute data are there	1	Incor rect	2	Incor rect	4	Corr ect	3	Incor rect
5 7	M C	There are 6 jobs to be executed under the given hard real-time system i.e. J1, J2, J3, J4, J5, J6. Each job	8	Incor rect	4	Incor rect	6	Corr ect	2	Incor rect

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		has the release								
		time and								
		absolute								
		deadline								
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		and successor								
		relation of the								
		job as follow J2								
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		J1, J3 is								
		predecessor of								
		J2 and J4, J5 is								
		successor of J2								
		and J4, and J5								
		is predecessor								
		of J6. What will								
		be deadline of								
		J1								
5	М	There are 6	1	Incor	2	Incor	4	Corr	6	Incor
8	С	jobs to be		rect		rect		ect		rect
		executed								
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		real-time								
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		J2, J3, J4, J5,								
		J6. Each job								
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		successor of J2								
		and J4, and J5								

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		is predecessor								
		of J6. What will								
		be the release								
		time of J2								
5	М	There are 6	J4	Corr	J1	Incor	J2	Incor	J3	Incor
9	С	jobs to be		ect		rect		rect		rect
		executed				1000		1000		1000
		under the								
		given hard								
		real-time								
		system i.e. J1,								
		J2, J3, J4, J5,								
		J6. Each job								
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		time and								
		absolute								
		deadline								
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		and deadline								
		(8,6,8,10,12,12								
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		and successor								
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		and J4, and J5								
		is predecessor								
		of J6. Which								
		job will follow								
		J2								
6	М		J4	Incor	J3	Incor	J1	Incor	J2	Corr
0	С	jobs to be		rect		rect		rect		ect
		executed								
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of J6. Which				
job will miss				
the deadline in				
EDF order				