

ProGen/max input format: RLP/max

n	ρ	0	0	\bar{d}				
0	1	s_0	j_1^0	...	$j_{s_0}^0$	$[\delta_{0,j_1^0}]$	...	$[\delta_{0,j_{s_0}^0}]$
1	1	s_1	j_1^1	...	$j_{s_1}^1$	$[\delta_{1,j_1^1}]$	...	$[\delta_{1,j_{s_1}^1}]$
...								
n	1	s_n	j_1^n	...	$j_{s_n}^n$	$[\delta_{n,j_1^n}]$	...	$[\delta_{n,j_{s_n}^n}]$
$n+1$	1	0						
0	1	0	0	...	0			
1	1	p_1	$r_{1,1}$	...	$r_{1,\rho}$			
...								
n	1	p_n	$r_{n,1}$	...	$r_{n,\rho}$			
$n+1$	1	0	0	...	0			
c_1	...	c_ρ						
Y_1	...	Y_ρ						

Symbols

Symbol	Denotes
n	Number of real activities
ρ	Number of renewable resources
\bar{d}	Project deadline
s_i	Number of direct successors of node i in project network
j_s^i	s -th successor of node i in project network
δ_{i,j_s^i}	Weight of arc (i, j_s^i)
p_i	Duration of activity i
r_{ik}	Number of units of resource k used for executing activity i
c_k	Unit cost of resource k
Y_k	Utilization threshold of resource k