

Input format RACP

| | | | | | | | | |
|-------|-------|-----------|-------------|--------------|-------------|----------------------|-----|--------------------------|
| n | K | 0 | 0 | <i>dummy</i> | | | | |
| 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 | p_0 | r_{01} | r_{02} | ... | r_{0K} | | |
| 1 | 1 | p_1 | r_{11} | r_{12} | ... | r_{1K} | | |
| ... | | | | | | | | |
| n | 1 | p_n | r_{n1} | r_{n2} | ... | r_{nK} | | |
| $n+1$ | 1 | p_{n+1} | $r_{n+1,1}$ | $r_{n+1,2}$ | ... | $r_{n+1,K}$ | | |
| R_1 | R_2 | ... | R_K | | | | | |
| c_1 | c_2 | ... | c_K | | | | | |

Symbols

| symbol | meaning |
|--------------------|--|
| n | number of real activities |
| K | number of renewable resources |
| 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 $\langle i, j_s^i \rangle$ |
| p_i | processing time of activity i |
| r_{ik} | resource requirement of activity i on resource k |
| R_k | capacity of resource k (not relevant for RACP) |
| c_k | cost for providing one unit of resource $k \in R$ |