instance name	objective function value	optimal solution/ upper bound
R121-15-80	610.8	opt
R141-15-80	750.06	opt
R161-15-80	1166.82	opt
R181-15-80	1968.38	opt
R1101-15-80	2033.88	opt
R121-15-120	542.2	opt
R141-15-120	669.72	opt
R161-15-120	1162.58	opt
R181-15-120	1755.95	opt
R1101-15-120	1809.69	opt
R121-17-80	726.06	opt
R141-17-80	791.1	opt
R161-17-80	1211.22	opt
R181-17-80	1991.59	opt
R1101-17-80	2295.88	opt
R121-17-120	564.39	opt
R141-17-120	757.74	opt
R161-17-120	1192.99	opt
R181-17-120	1786.75	opt
R1101-17-120	2052.03	opt
R121-20-120	623.67	opt
R141-20-120	798.39	opt
R161-20-120	1279.51	opt
R181-20-120	1865.87	opt
R1101-20-120	2119.54	opt