

Options: queue, random restart, no recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	84	88	85	87	22.96	31.57	48.32	50.72	44.83	51.72	46.55	50.00
G150p20E*	86	95	96	97	97	67.96	101.01	150.89	164.30	10.47	11.63	12.79	12.79
Avg.						44.46	67.30	100.62	107.51	27.65	32.69	30.68	31.40

Options: queue, random restart, approximate recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	84	85	87	85	14.45	28.76	36.60	47.30	44.83	46.55	50.00	46.55
G150p20E*	86	94	96	97	96	41.41	87.66	107.90	147.48	9.30	11.63	12.79	11.63
Avg.						26.93	59.22	73.26	97.39	27.06	30.10	32.41	29.09

Options: queue, random restart, exact recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	82	84	85	85	36.23	97.37	82.51	118.19	41.38	44.83	46.55	46.55
G150p20E*	86	95	94	96	97	140.86	436.47	292.24	477.65	10.47	9.30	11.63	12.79
Avg.						87.55	267.93	188.39	297.92	25.92	28.08	30.10	29.67

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Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	86	87	87	86	21.57	27.99	44.60	47.06	48.28	50.00	50.00	48.28
G150p20E*	86	95	95	95	97	70.49	90.00	140.89	151.92	10.47	10.47	10.47	12.79
Avg.						45.03	60.00	93.76	99.49	29.37	31.24	31.24	30.53

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Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	86	85	84	85	13.22	22.70	32.93	40.17	48.28	46.55	44.83	46.55
G150p20E*	86	95	94	94	95	36.97	73.26	91.71	125.26	10.47	9.30	9.30	10.47
Avg.						24.10	48.99	63.33	82.71	29.37	28.94	28.08	28.51

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Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	82	83	83	83	33.31	80.66	75.82	107.26	41.38	43.10	43.10	43.10
G150p20E*	86	92	92	93	93	111.90	374.92	263.52	438.08	6.98	6.98	8.14	8.14
Avg.						71.61	228.80	170.68	272.67	24.18	26.05	26.63	25.62

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	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	87	86	86	87	28.34	36.32	68.38	65.11	50.00	48.28	48.28	50.00
G150p20E*	86	96	97	96	98	90.35	123.57	222.10	207.96	11.63	12.79	11.63	13.95
Avg.						58.35	80.95	146.25	136.54	30.81	31.54	30.96	31.98

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Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	83	85	83	85	17.89	35.01	48.22	58.37	43.10	46.55	43.10	46.55
G150p20E*	86	95	96	95	97	50.93	112.83	154.58	197.58	10.47	11.63	10.47	12.79
Avg.						33.41	74.93	102.41	127.97	26.78	30.10	27.79	29.67

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Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	84	85	84	83	43.68	96.28	91.32	126.97	44.83	46.55	44.83	43.10
G150p20E*	86	92	95	94	96	169.02	442.30	361.03	513.56	6.98	10.47	9.30	11.63
Avg.						105.35	270.30	227.19	320.27	25.90	29.52	28.08	27.37

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Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	86	83	85	88	27.18	36.42	59.96	66.22	48.28	43.10	46.55	51.72
G150p20E*	86	93	96	95	97	89.56	121.16	225.12	196.77	8.14	11.63	10.47	12.79
Avg.						57.37	79.80	143.55	131.49	28.21	28.38	29.52	32.26

Options: stack, perturbation restart, approximate recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	84	83	84	82	16.33	30.73	41.50	54.24	44.83	43.10	44.83	41.38
G150p20E*	86	95	94	95	96	49.43	102.12	144.50	185.25	10.47	9.30	10.47	11.63
Avg.						31.88	67.43	94.01	119.75	27.65	27.21	28.66	26.50

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Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	82	83	83	84	40.13	82.43	83.97	111.97	41.38	43.10	43.10	44.83
G150p20E*	86	91	93	90	93	155.23	385.72	363.95	535.62	5.81	8.14	4.65	8.14
Avg.						96.68	235.08	224.97	323.79	23.60	26.63	24.89	26.48

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Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	88	84	86	88	30.79	30.03	55.78	60.30	51.72	44.83	48.28	51.72
G150p20E*	86	96	97	96	97	98.38	105.32	185.45	188.49	11.63	12.79	11.63	12.79
Avg.						63.59	68.68	121.63	124.40	31.68	29.82	30.96	32.26

Options: priority queue, random restart, approximate recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	83	85	85	88	22.11	30.53	43.70	54.88	43.10	46.55	46.55	51.72
G150p20E*	86	96	97	97	96	64.56	92.76	128.24	177.25	11.63	12.79	12.79	11.63
Avg.						42.34	62.65	86.98	116.07	27.37	30.68	30.68	31.68

Options: priority queue, random restart, exact recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	83	83	84	85	41.29	77.76	78.66	112.04	43.10	43.10	44.83	46.55
G150p20E*	86	95	94	96	95	157.84	330.19	292.02	454.82	10.47	9.30	11.63	10.47
Avg.						98.57	204.98	186.35	283.43	26.78	27.21	29.24	28.51

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Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	84	87	87	87	28.62	30.35	53.79	53.47	44.83	50.00	50.00	50.00
G150p20E*	86	95	93	96	96	91.27	100.11	175.35	179.85	10.47	8.14	11.63	11.63
Avg.						58.95	66.24	115.58	116.66	27.65	30.08	31.82	30.81

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Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	82	87	82	81	19.27	27.65	40.75	45.56	41.38	50.00	41.38	39.66
G150p20E*	86	94	95	94	95	59.37	81.56	117.13	155.46	9.30	10.47	9.30	10.47
Avg.						38.32	55.61	79.95	100.51	25.34	31.24	26.35	25.06

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	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
G100p15E	58	82	82	82	83	40.34	71.36	75.38	97.16	41.38	41.38	41.38	43.10
G150p20E*	86	93	93	93	94	145.01	276.78	284.00	406.66	8.14	8.14	8.14	9.30
Avg.						91.68	175.08	180.70	251.91	24.76	25.77	25.77	26.20