

solution quality - seed 1

solution quality - seed 2

solution quality - seed 3

	$\lambda - 1$	t_n
(a)	42	0.1
(b)	38	1.69
(f)	27	2.8

	$\lambda - 1$	t_n
(a)	43	0.11
(c)	40	1.98

	$\lambda - 1$	t_n
(a)	41	0.098
(d)	35	2.0
(e)	33	2.1

(a)

(b)

(c)

(d)

(e)

(f)

t_n	0.11	1.69	1.98	2.0	2.1	2.8
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seed 1	42	38	38	38	38	27
seed 2	43	43	40	40	40	40
seed 3	41	41	41	35	33	33

$avg(s_1, s_2, s_3)$	42	40.66	39.66	37.66	37	33.33
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(40.66, 1.69)

(37.66, 2.0)

(41, 2.8)

(42, 0.11)

(39.66, 1.98)

(37, 2.1)

averaged improvement

instance 1 (42, 0.11) (40.66, 1.69) (39.66, 1.98)

instance 2

instance 3