

Tabela de Experimentos

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Tabela 1: Resultado dos testes.

Instância	Nº vértices	Algoritmo	Custo Ob- tido	Custo Ótimo	Memória Pico (MB.)	Tempo (seg.)
eil51	51	Christofides	480.88	426	0.05	0.33
	51	TAT	640.90	426	0.01	0.17
berlin52	52	TAT	10116.01	7542	0.01	0.06
	52	Christofides	8594.03	7542	0.03	0.26
st70	70	TAT	873.35	675	0.01	0.17
	70	Christofides	756.71	675	0.08	0.51
eil76	76	Christofides	623.06	538	0.10	0.66
	76	TAT	707.15	538	0.02	0.17
pr76	76	TAT	145338.11	108159	0.02	0.17
	76	Christofides	115878.39	108159	0.05	0.41
rat99	99	Christofides	1367.43	1211	0.11	0.72
	99	TAT	1723.23	1211	0.03	0.39
kroD100	100	TAT	27113.30	21294	0.03	0.40
	100	Christofides	23587.75	21294	0.14	0.78
kroE100	100	TAT	30507.42	22068	0.03	0.40
	100	Christofides	23782.61	22068	0.23	1.06
rd100	100	TAT	10791.66	7910	0.03	0.40
	100	Christofides	8905.49	7910	0.22	1.11
kroC100	100	TAT	27966.54	20749	0.03	0.40
	100	Christofides	23469.13	20749	0.14	0.92
kroA100	100	Christofides	23292.98	21282	0.18	0.94
	100	TAT	27211.68	21282	0.06	0.54
kroB100	100	Christofides	24009.19	22141	0.10	0.68
	100	TAT	25881.20	22141	0.03	0.40
eil101	101	TAT	830.54	629	0.03	0.41
	101	Christofides	723.00	629	0.19	1.22
lin105	105	TAT	19498.41	14379	0.03	0.45
	105	Christofides	16323.68	14379	0.24	0.75
pr107	107	TAT	54238.04	44303	0.04	0.62
	107	Christofides	47894.18	44303	0.11	0.98
pr124	124	TAT	74140.96	59030	0.05	0.68
	124	Christofides	64437.70	59030	0.10	0.68

bier127	127	TAT	158637.61	118282	0.05	0.72
	127	Christofides	132456.25	118282	0.36	1.78
ch130	130	Christofides	6752.28	6110	0.34	1.03
	130	TAT	8128.76	6110	0.05	0.76
pr136	136	Christofides	103478.24	96772	0.10	0.84
	136	TAT	151913.74	96772	0.06	0.99
pr144	144	Christofides	70405.28	58537	0.10	0.96
	144	TAT	80596.32	58537	0.06	0.96
kroB150	150	Christofides	30054.39	26130	0.52	1.85
	150	TAT	36154.73	26130	0.07	1.05
kroA150	150	TAT	35122.57	26524	0.07	1.20
	150	Christofides	29688.32	26524	0.47	1.85
ch150	150	TAT	8333.47	6528	0.07	1.05
	150	Christofides	7112.04	6528	0.27	1.10
pr152	152	Christofides	79314.35	73682	0.11	1.08
	152	TAT	87998.69	73682	0.12	1.08
u159	159	TAT	57787.97	42080	0.08	1.20
	159	Christofides	47581.72	42080	0.29	1.68
rat195	195	Christofides	2648.10	2323	0.69	2.06
	195	TAT	3317.72	2323	0.16	1.87
d198	198	Christofides	17316.37	15780	0.67	2.31
	198	TAT	19218.43	15780	0.13	1.95
kroA200	200	TAT	40030.87	29368	0.12	2.13
	200	Christofides	33602.86	29368	1.10	3.22
kroB200	200	Christofides	33026.94	29437	1.03	2.54
	200	TAT	40710.96	29437	0.20	1.99
ts225	225	Christofides	133282.17	126643	0.29	2.54
	225	TAT	188009.70	126643	0.16	2.54
tsp225	225	Christofides	4376.00	3919	1.28	2.54
	225	TAT	5115.93	3919	0.16	2.54
pr226	226	Christofides	92425.75	80369	0.98	3.06
	226	TAT	116692.15	80369	0.16	2.56
gil262	262	Christofides	2695.15	2378	2.92	4.60
	262	TAT	3358.15	2378	0.22	3.61
pr264	264	TAT	66466.84	49135	0.29	3.55
	264	Christofides	54663.60	49135	0.72	3.55
a280	280	Christofides	2975.11	2579	2.13	4.52
	280	TAT	3629.72	2579	0.29	4.16
pr299	299	TAT	64646.03	48191	0.33	4.73
	299	Christofides	52968.22	48191	2.23	4.95
lin318	318	TAT	58145.44	42029	0.37	5.35
	318	Christofides	47259.76	42029	3.91	6.06
rd400	400	Christofides	17538.63	15281	11.79	11.18
	400	TAT	20250.38	15281	0.63	8.47
fl417	417	Christofides	13424.73	11861	4.57	8.95

	417	TAT	16297.17	11861	0.67	8.95
pr439	439	Christofides	119532.04	107217	4.88	9.98
	439	TAT	144624.16	107217	0.76	10.13
pcb442	442	Christofides	54823.99	50778	9.13	12.06
	442	TAT	69364.90	50778	0.78	10.25
d493	493	TAT	45427.09	35002	1.02	12.76
	493	Christofides	38393.64	35002	14.92	13.05
u574	574	Christofides	41337.61	36905	24.00	17.43
	574	TAT	49083.15	36905	1.35	17.20
rat575	575	Christofides	7802.75	6773	27.48	19.47
	575	TAT	9438.93	6773	1.43	17.25
p654	654	TAT	49731.90	34643	1.80	22.30
	654	Christofides	39244.71	34643	4.13	22.30
d657	657	Christofides	54738.30	48912	35.48	22.49
	657	TAT	65730.19	48912	1.84	22.49
u724	724	Christofides	47954.68	41910	45.39	27.46
	724	TAT	57779.67	41910	2.21	27.46
rat783	783	TAT	12054.45	8806	2.64	32.02
	783	Christofides	10102.87	8806	70.57	40.21
pr1002	1002	Christofides	286233.10	259045	105.35	61.19
	1002	TAT	342244.46	259045	4.24	52.51
u1060	1060	TAT	302914.87	224094	5.17	58.64
	1060	Christofides	249108.58	224094	140.62	59.69
vm1084	1084	Christofides	260833.06	239297	70.33	61.69
	1084	TAT	315268.35	239297	5.23	61.70
pcb1173	1173	Christofides	63392.44	56892	128.81	72.00
	1173	TAT	80694.89	56892	6.22	72.00
d1291	1291	Christofides	57930.37	50801	34.34	86.71
	1291	TAT	74658.30	50801	7.43	86.71
rl1304	1304	TAT	347782.57	252948	7.48	89.17
	1304	Christofides	278319.19	252948	34.32	89.17
rl1323	1323	TAT	380421.59	270199	8.04	91.56
	1323	Christofides	298261.72	270199	35.25	91.56
nrw1379	1379	TAT	79156.27	56638	8.35	99.84
	1379	Christofides	63845.07	56638	461.81	111.24
fl1400	1400	Christofides	22834.35	20127	422.17	163.04
	1400	TAT	27915.52	20127	8.79	102.65
u1432	1432	Christofides	171558.08	152970	137.44	106.98
	1432	TAT	214430.78	152970	9.54	106.98
fl1577	1577	Christofides	24515.85	22249	86.76	130.00
	1577	TAT	31223.10	22249	10.98	130.00
d1655	1655	Christofides	70542.34	62128	172.92	143.64
	1655	TAT	85681.08	62128	12.18	143.64
vm1748	1748	TAT	444658.63	336556	13.37	160.34
	1748	Christofides	376240.90	336556	259.19	160.34
u1817	1817	Christofides	66796.26	57201	197.23	172.15

	1817	TAT	83501.56	57201	15.05	172.15
rl1889	1889	TAT	449811.49	316536	16.39	186.66
	1889	Christofides	344565.85	316536	106.26	186.66
d2103	2103	TAT	124533.87	80450	20.43	231.73
	2103	Christofides	84509.81	80450	25.55	231.73
u2152	2152	TAT	95076.22	64253	20.97	241.74
	2152	Christofides	73895.99	64253	286.18	241.74
u2319	2319	TAT	320532.84	234256	30.75	280.13
	2319	Christofides	272542.91	234256	1442.82	494.20
pr2392	2392	TAT	523132.91	378032	31.28	299.23
	2392	Christofides	425979.59	378032	1208.62	299.22
pcb3038	3038	TAT	196573.90	137694	48.08	482.63
	3038	Christofides	NaN	137694	NaN	NaN
fl3795	3795	Christofides	NaN	28772	NaN	NaN
	3795	TAT	39072.83	28772	77.15	754.33
fnl4461	4461	TAT	254671.63	182566	118.53	1044.83
	4461	Christofides	NaN	182566	NaN	NaN
rl5915	5915	TAT	840348.36	565530	231.04	1823.01
	5915	Christofides	NaN	565530	NaN	NaN
rl5934	5934	TAT	827482.34	556045	220.81	1833.83
	5934	Christofides	NaN	556045	NaN	NaN
rl11849	11849	TAT	*	923368	*	*
	11849	Christofides	*	923368	*	*
usa13509	13509	TAT	*	19982889	*	*
	13509	Christofides	*	19982889	*	*
brd14051	14051	TAT	*	469445	*	*
	14051	Christofides	*	469445	*	*
d15112	15112	TAT	*	1573152	*	*
	15112	Christofides	*	1573152	*	*
d18512	18512	TAT	*	645488	*	*
	18512	Christofides	*	645488	*	*