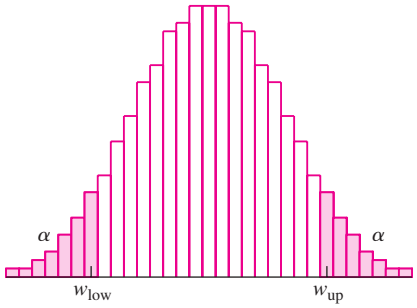
TABLE A.6 Critical points for the Wilcoxon rank-sum test



m	n	w_{low}	w_{up}	α
2	5	4	12	0.0952
		3	13	0.0476
	6	4	14	0.0714
		3	15	0.0357
	7	4	16	0.0556
		3	17	0.0278
	8	5	17	0.0889
		4	18	0.0444
		3	19	0.0222
3	4	7	17	0.0571
		6	18	0.0286
	5	8	19	0.0714
		7	20	0.0357
		6	21	0.0179
	6	9	21	0.0833
		8	22	0.0476
		7	23	0.0238
	7	9	24	0.0583
		8	25	0.0333
		7	26	0.0167
		6	27	0.0083
	8	10	26	0.0667
		9	27	0.0424
		8	28	0.0242
		7	29	0.0121
		6	30	0.0061
4	4	12	24	0.0571
		11	25	0.0286
		10	26	0.0143
	5	13	27	0.0556
		12	28	0.0317
		11	29	0.0159
		10	30	0.0079
	6	14	30	0.0571
		13	31	0.0333
		12	32	0.0190
		11	33	0.0095
		10	34	0.0048
	7	15	33	0.0545
		14	34	0.0364
		13	35	0.0212
		12	36	0.0121
		11	37	0.0061
		10	38	0.0030
	8	16	36	0.0545
		15	37	0.0364
		14	38	0.0242
		13	39	0.0141
		12	40	0.0081
		11	41	0.0040
5	5	20	35	0.0754
		19	36	0.0476
		18	37	0.0278
		17	38	0.0159
		16	39	0.0079
		15	40	0.0040
	6	21	39	0.0628
		20	40	0.0411
		19	41	0.0260
		18	42	0.0152
		17	43	0.0087
		16	44	0.0043
	7	22	43	0.0530
		21	44	0.0366
		20	45	0.0240
		19	46	0.0152
		18	47	0.0088
		17	48	0.0051
		16	49	0.0025
	8	24	46	0.0637
		23	47	0.0466
		22	48	0.0326
		21	49	0.0225
		20	50	0.0148
		19	51	0.0093
		18	52	0.0054
		17	53	0.0031
6	6	29	49	0.0660
		28	50	0.0465
		27	51	0.0325
		26	52	0.0206
		25	53	0.0130
		24	54	0.0076
		23	55	0.0043
	7	30	54	0.0507
		29	55	0.0367
		28	56	0.0256
		27	57	0.0175
		26	58	0.0111
		25	59	0.0070
		24	60	0.0041
	8	32	58	0.0539
		31	59	0.0406
		30	60	0.0296
		29	61	0.0213
		28	62	0.0147
		27	63	0.0100
		26	64	0.0063
		25	65	0.0040
7	7	40	65	0.0641
		39	66	0.0487
		37	68	0.0265
		36	69	0.0189
		35	70	0.0131
		34	71	0.0087
		33	72	0.0055
		32	73	0.0035
	8	42	70	0.0603
		41	71	0.0469
		39	73	0.0270
		38	74	0.0200
		36	76	0.0103
		35	77	0.0070
		34	78	0.0047
8	8	52	84	0.0524
		51	85	0.0415
		50	86	0.0325
		49	87	0.0249
		46	90	0.0103
		45	91	0.0074
		44	92	0.0052
		43	93	0.0035

When m and n are both greater than 8, compute $z = \frac{W - m(m+n+1)/2}{\sqrt{mn(m+n+1)/12}}$ and use the z table (Table A.2).