$X = (X_1, \dots, X_n), Y = (Y_1, \dots, Y_n), Z = (X_1, \dots, X_n, Y_1, \dots, Y_n).$ 

$$L_{0.5}(Z) = \sum_{i,j=1}^{n} \ln(1 + |X_i - Y_j|^{0.5}), \tag{1}$$

$$L_{0.5}^{C}(Z) = \sum_{i,j=1}^{n} \ln\left(1 + \left(\frac{|X_i - Y_j|}{C}\right)^{0.5}\right), \tag{2}$$

$$L_1(Z) = \sum_{i,j=1}^n \ln(1+|X_i-Y_j|), \tag{3}$$

$$L_1^C(Z) = \sum_{j=1}^n \ln\left(1 + \left(\frac{|X_i - Y_j|}{C}\right)\right),$$
 (4)

$$L_2(Z) = \sum_{i,j=1}^n \ln(1+|X_i-Y_j|^2), \tag{5}$$

$$L_2^C(Z) = \sum_{i,j=1}^n \ln\left(1 + \left(\frac{|X_i - Y_j|}{C}\right)^2\right),$$
 (6)

$$C = \sum_{1 \le i < j \le 2n} |Z_i - Z_j| / (n(2n - 1)), \tag{7}$$

(8)

 $LL_{distribution}$  = maximum log likelyhood permutation criterion based on the distribution

Таблица 1: Мощность тестов при размерах выборок n=5

$F_2$	$L_{0.5}$	$L_{0.5}^{C}$	$L_1$	$L_1^C$	$L_2$	$L_2^C$	$LL_{norm}$	$LL_{cauchy}$	$LL_{levy}$	$LL_{log cauchy}$	wilcox.test	ks.test
N(0,1)	$\frac{20.5}{0.05}$	0.05	0.052	0.055	0.057	0.056	0.051	0.055	0.046	<i>EBlogcauchy</i>	0.031	0.007
N(0.5, 1)	0.115	0.115	0.123	0.127	0.125	0.125	0.115	0.105	0.091		0.078	0.026
N(1,1)	0.246	0.25	0.27	0.276	0.299	0.307	0.245	0.209	0.135		0.217	0.069
N(1.5, 1)	0.465	0.469	0.502	0.511	0.533	0.554	0.49	0.415	0.282		0.437	0.192
N(2,1)	0.718	0.721	0.756	0.759	0.775	0.794	0.731	0.661	0.453		0.695	0.387
N(0,1)	0.051	0.05	0.051	0.054	0.052	0.056	0.051	0.054	0.054		0.035	0.011
N(0, 2)	0.134	0.135	0.124	0.113	0.112	0.086	0.164	0.133	0.136		0.044	0.009
N(0,3)	0.228	0.227	0.225	0.192	0.21	0.107	0.277	0.218	0.206		0.038	0.012
N(0, 4)	0.365	0.368	0.362	0.312	0.357	0.14	0.433	0.351	0.286		0.048	0.015
N(0,5)	0.481	0.469	0.475	0.424	0.479	0.171	0.583	0.443	0.375		0.059	0.03
N(0, 1)	0.06	0.06	0.061	0.063	0.062	0.063	0.061	0.058	0.067		0.039	0.01
N(0.5, 1.5)	0.104	0.105	0.11	0.113	0.119	0.116	0.126	0.101	0.065		0.067	0.018
N(1, 2)	0.222	0.222	0.22	0.208	0.215	0.193	0.23	0.211	0.117		0.113	0.045
N(1.5, 2.5)	0.308	0.314	0.318	0.307	0.313	0.29	0.338	0.29	0.158		0.156	0.073
N(2, 3)	0.45	0.451	0.455	0.449	0.467	0.388	0.489	0.434	0.211		0.223	0.118
N(0, 1)	0.056	0.057	0.055	0.057	0.054	0.054	0.059	0.058	0.054		0.028	0.012
N(0.5, 2)	0.137	0.138	0.141	0.132	0.134	0.106	0.159	0.138	0.106		0.06	0.02
N(1, 3)	0.281	0.282	0.278	0.257	0.276	0.181	0.336	0.271	0.173		0.087	0.034
N(1.5, 4)	0.427	0.423	0.435	0.391	0.447	0.23	0.518	0.408	0.243		0.111	0.049
N(2, 5)	0.534	0.538	0.54	0.488	0.547	0.258	0.623	0.513	0.321		0.117	0.06
$F_2$	$L_{0.5}$	$L_{0.5}^{C}$	$L_1$	$L_1^C$	$L_2$	$L_2^C$	$LL_{norm}$	$LL_{cauchy}$	$LL_{levy}$	$LL_{log cauchy}$	wilcox.test	ks.test
C(0, 1)	0.075	0.076	0.077	0.079	0.073	0.078	0.074	0.072	0.063		0.039	0.007
C(1, 1)	0.13	0.133	0.133	0.123	0.126	0.117	0.113	0.129	0.096		0.076	0.028
C(2, 1)	0.343	0.339	0.343	0.342	0.337	0.312	0.263	0.321	0.214		0.2	0.094
C(3, 1)	0.578	0.574	0.576	0.553	0.573	0.505	0.435	0.562	0.329		0.369	0.234
C(4, 1)	0.725	0.715	0.729	0.701	0.728	0.626	0.587	0.72	0.465		0.445	0.312
C(0, 1)	0.068	0.069	0.067	0.069	0.068	0.065	0.062	0.063	0.071		0.036	0.011
C(0, 3)	0.161	0.162	0.168	0.137	0.168	0.083	0.176	0.162	0.137		0.046	0.017
C(0, 5)	0.296	0.292	0.297	0.257	0.302	0.105	0.318	0.299	0.256		0.033	0.016
C(0, 7)	0.367	0.361	0.363	0.314	0.366	0.111	0.392	0.373	0.281		0.045	0.023
C(0, 9)	0.471	0.472	0.484	0.423	0.487	0.159	0.494	0.472	0.361		0.055	0.027

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$ \begin{array}{c} C(2,3) \\ C(3,4) \\ C(3,4) \\ O.371 \\ O.37 \\ O.37 \\ O.371 \\ O.37 \\ O.37 \\ O.371 \\ O.37 \\ O.37 \\ O.34 \\ O.33 \\ O.35 \\ O.45 \\$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	C(0, 1)	0.057	0.055	0.056	0.056	0.064	0.051	0.063	0.058	0.059		0.028	0.008
$ \begin{array}{c} G(2,3) & 0.26 & 0.25 & 0.251 & 0.251 & 0.251 & 0.251 & 0.268 & 0.276 & 0.479 & 0.158 & 0.008 & 0.086 \\ G(3,4) & 0.471 & 0.37 & 0.374 & 0.335 & 0.379 & 0.222 & 0.345 & 0.079 & 0.194 & 0.117 & 0.086 \\ G(4,5) & 0.462 & 0.45 & 0.451 & 0.433 & 0.451 & 0.276 & 0.419 & 0.461 & 0.25 & 0.059 & 0.031 & 0.012 \\ C(1,3) & 0.2 & 0.189 & 0.191 & 0.160 & 0.187 & 0.107 & 0.105 & 0.023 & 0.122 \\ C(2,5) & 0.338 & 0.335 & 0.335 & 0.329 & 0.339 & 0.142 & 0.040 & 0.059 \\ C(3,7) & 0.498 & 0.485 & 0.433 & 0.443 & 0.499 & 0.244 & 0.451 & 0.392 & 0.224 \\ C(3,7) & 0.498 & 0.485 & 0.433 & 0.443 & 0.499 & 0.244 & 0.451 & 0.392 & 0.224 \\ C(3,7) & 0.498 & 0.485 & 0.471 & 0.31 & 0.294 & 0.533 & 0.538 & 0.342 \\ C(4,9) & 0.532 & 0.535 & 0.543 & 0.488 & 0.541 & 0.201 & 0.533 & 0.538 & 0.342 \\ L(2,5,1) & 0.051 & 0.05 & 0.052 & 0.051 & 0.052 & 0.05 & 0.046 \\ L(2,5,1) & 0.051 & 0.05 & 0.052 & 0.051 & 0.052 & 0.05 & 0.046 \\ L(2,5,1) & 0.525 & 0.471 & 0.51 & 0.404 & 0.505 & 0.276 & 0.308 & 0.559 & 0.706 & 0.195 & 0.123 \\ L(0,1) & 0.723 & 0.675 & 0.727 & 0.592 & 0.735 & 0.422 & 0.473 & 0.753 & 0.865 & 0.299 & 0.25 \\ L(0,1) & 0.723 & 0.675 & 0.727 & 0.592 & 0.735 & 0.422 & 0.473 & 0.753 & 0.865 & 0.299 & 0.25 \\ L(0,1) & 0.049 & 0.056 & 0.049 & 0.057 & 0.049 & 0.054 & 0.056 & 0.819 & 0.024 & 0.181 \\ L(0,1) & 0.723 & 0.675 & 0.727 & 0.592 & 0.735 & 0.422 & 0.473 & 0.753 & 0.865 & 0.299 & 0.25 \\ L(0,1) & 0.049 & 0.056 & 0.049 & 0.057 & 0.049 & 0.064 & 0.054 & 0.066 & 0.819 & 0.024 & 0.181 \\ L(0,1) & 0.049 & 0.056 & 0.049 & 0.057 & 0.049 & 0.064 & 0.054 & 0.066 & 0.819 & 0.024 & 0.181 \\ L(0,1) & 0.049 & 0.056 & 0.049 & 0.057 & 0.049 & 0.064 & 0.054 & 0.066 & 0.819 & 0.024 & 0.054 \\ L(0,1) & 0.049 & 0.056 & 0.049 & 0.057 & 0.049 & 0.064 & 0.054 & 0.066 & 0.819 & 0.024 & 0.054 \\ L(0,1) & 0.047 & 0.048 & 0.047 & 0.049 & 0.058 & 0.059 & 0.058 & 0.059 & 0.054 & 0.0428 & 0.064 \\ L(0,1) & 0.047 & 0.048 & 0.047 & 0.049 & 0.058 & 0.058 & 0.059 & 0.044 & 0.054 & 0.0428 & 0.024 \\ L(0,1) & 0.047 & 0.048 & 0.047 & 0.049 & 0.058 & 0.059 & 0.058 & 0.046 & 0.055 &$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	C(1, 2)	0.12	0.12	0.12	0.121	0.126	0.093	0.12	0.118	0.091		0.058	0.019
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	C(2, 3)	0.26	0.25	0.251	0.251	0.254	0.168	0.246	0.27	0.158		0.093	0.038
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		0.371	0.37	0.374	0.335	0.379	0.222	0.345	0.379	0.194		0.117	0.065
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	L(2.5, 3.5)	0.346	0.318	0.341	0.295	0.337	0.277	0.201	0.352	0.413		0.238	0.12
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	L(7.5, 8.5)	0.602	0.553	0.598	0.503	0.605	0.46	0.384	0.62	0.689		0.428	0.261
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	L(10, 11)	0.678	0.623	0.686	0.568	0.694	0.529	0.457	0.699	0.765		0.498	0.337
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	L(0, 1)	0.053	0.053	0.053	0.056	0.054	0.058	0.058	0.053	0.048		0.038	0.008
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			0.373	0.39	0.351	0.39	0.347	0.264	0.424	0.459		0.308	0.146
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	LC(6, 13)   0.38   0.493   0.375   0.579   0.381   0.583   0.428   0.299   0.29   0.667   0.116   0.085			l										
		1 ' ' '		l										
$\mid$ LC(8, 17) $\mid$ 0.412 $\mid$ 0.543 $\mid$ 0.396 $\mid$ 0.627 $\mid$ 0.411 $\mid$ 0.634 $\mid$ 0.466 $\mid$ 0.309 $\mid$ 0.294 $\mid$ 0.733 $\mid$ 0.086 $\mid$ 0.063 $\mid$	LC(8, 17)         0.412         0.543         0.396         0.627         0.411         0.634         0.466         0.309         0.294         0.733         0.086         0.063	LC(8, 17)	0.412	0.543	0.396	0.627	0.411	0.634	0.466	0.309	0.294	0.733	0.086	0.063

Таблица 2: Мощность тестов при размерах выборок n=50

$F_2$	$L_{0.5}$	$L_{0.5}^{C}$	$L_1$	$L_1^C$	$L_2$	$L_2^C$	$LL_{norm}$	$LL_{cauchy}$	$LL_{levy}$	$LL_{log cauchy}$	wilcox.test	ks.test
N(0, 1)	0.049	0.049	0.05	0.048	0.043	0.043	0.053	0.051	0.052		0.041	0.041

N(0.2, 1)	0.136	0.136	0.138	0.142	0.15	0.149	0.14	0.118	0.058		0.149	0.111
N(0.4, 1)	0.36	0.36	0.402	0.405	0.438	0.445	0.389	0.316	0.103		0.461	0.332
N(0.6, 1)	0.718	0.718	0.753	0.756	0.789	0.8	0.75	0.622	0.192		0.817	0.684
N(0.8, 1)	0.931	0.932	0.944	0.946	0.957	0.959	0.947	0.841	0.322		0.964	0.91
N(0, 1)	0.047	0.048	0.052	0.053	0.055	0.054	0.043	0.052	0.039		0.053	0.042
N(0, 1.5)	0.379	0.379	0.385	0.37	0.363	0.336	0.684	0.232	0.362		0.064	0.139
N(0, 1.0)	0.886	0.885	0.893	0.892	0.903	0.876	0.004	0.698	0.755		0.055	0.133 $0.377$
				0.892 0.989	0.903 0.992		0.991					0.677
N(0, 2.5)	0.989	0.989	0.991	l	I	0.988		0.925	0.935		0.066	
N(0, 3)	0.999	0.999	0.999	0.999	0.999	0.999	1	0.995	0.984		0.067	0.875
N(0, 1)	0.053	0.053	0.048	0.046	0.047	0.045	0.044	0.053	0.062		0.041	0.043
N(0.25, 1.25)	0.229	0.23	0.239	0.241	0.243	0.243	0.36	0.151	0.098		0.167	0.158
N(0.5, 1.5)	0.675	0.679	0.71	0.714	0.725	0.712	0.882	0.517	0.168		0.459	0.507
N(0.75, 1.75)	0.93	0.929	0.943	0.942	0.949	0.947	0.988	0.82	0.261		0.714	0.821
N(1, 2)	0.991	0.991	0.992	0.992	0.994	0.993	0.998	0.961	0.402		0.857	0.959
N(0, 1)	0.06	0.061	0.057	0.057	0.061	0.06	0.057	0.053	0.051		0.057	0.046
N(0.25, 1.5)	0.466	0.469	0.482	0.473	0.462	0.429	0.733	0.33	0.229		0.155	0.238
N(0.5, 2)	0.943	0.946	0.951	0.953	0.954	0.947	0.996	0.814	0.561		0.333	0.691
N(0.75, 2.5)	0.997	0.997	0.998	0.998	0.998	0.998	1	0.976	0.796		0.468	0.896
N(1,3)	1	1	1	1	1	1	1	0.998	0.912		0.567	0.984
$F_2$	$L_{0.5}$	$L_{0.5}^{C}$	$L_1$	$L_1^C$	$L_2$	$L_2^C$	$LL_{norm}$	$LL_{cauchy}$	$LL_{levy}$	$LL_{log cauchy}$	wilcox.test	ks.test
C(0, 1)	0.047	0.045	0.045	0.048	0.045	0.049	0.047	0.042	0.061	годешену	0.055	0.041
C(0,1) C(0.5,1)	0.312	0.309	0.307	0.040	0.045 $0.285$	0.043 $0.143$	0.058	0.042	0.055		0.033 $0.283$	0.299
C(0.5, 1) C(1, 1)	0.312 $0.813$	0.803	0.808	0.244	0.791	0.143	0.059	0.853	0.053 $0.052$		0.283 $0.722$	0.299
C(1, 1) C(1.5, 1)	0.991	0.803 0.992	0.991	0.717	0.731	0.433 $0.731$	0.033	0.898	0.052 $0.058$		0.722 $0.958$	0.802
C(1.3, 1) $C(2, 1)$	1	0.992	1	0.905	1	0.751	0.075	1	0.038 $0.071$		0.998	1
			0.048	0.990								
C(0, 1)	0.049	0.049		l	0.05	0.051	0.048	0.043	0.055		0.05	0.033
C(0, 2)	0.542	0.53	0.536	0.439	0.527	0.231	0.19	0.571	0.121		0.052	0.197
C(0, 3)	0.911	0.905	0.912	0.824	0.909	0.475	0.338	0.937	0.245		0.064	0.459
C(0, 4)	0.991	0.989	0.99	0.972	0.99	0.662	0.448	0.995	0.357		0.054	0.704
C(0, 5)	0.999	0.999	0.999	0.987	0.999	0.762	0.538	1	0.412		0.057	0.834
C(0, 1)	0.043	0.044	0.048	0.036	0.044	0.04	0.044	0.055	0.045		0.051	0.044
C(0.5, 1.5)	0.386	0.381	0.384	0.308	0.373	0.18	0.097	0.422	0.088		0.214	0.299
C(1, 2)	0.822	0.81	0.819	0.716	0.807	0.384	0.172	0.853	0.118		0.461	0.656
C(1.5, 2.5)	0.966	0.961	0.966	0.913	0.966	0.61	0.263	0.978	0.184		0.626	0.865
C(2, 3)	0.997	0.997	0.998	0.988	0.998	0.738	0.341	0.999	0.235		0.704	0.956
C(0, 1)	0.045	0.05	0.055	0.047	0.051	0.048	0.042	0.051	0.045		0.052	0.038
C(0.5, 2)	0.616	0.6	0.608	0.489	0.591	0.249	0.181	0.666	0.109		0.15	0.307
C(1, 3)	0.962	0.958	0.964	0.903	0.964	0.571	0.31	0.978	0.218		0.288	0.704
C(1.5, 4)	0.995	0.995	0.995	0.985	0.994	0.715	0.437	0.996	0.305		0.367	0.887
C(2,5)	1	1	1	0.998	1	0.827	0.537	1	0.413		0.412	0.956
$F_2$	$L_{0.5}$	$L_{0.5}^{C}$	$L_1$	$L_1^C$	$L_2$	$L_2^C$	$LL_{norm}$	$LL_{cauchy}$	$LL_{levy}$	$LL_{log cauchy}$	wilcox.test	ks.test
L(0, 1)	0.051	0.051	0.053	0.054	0.053	0.057	0.056	0.05	0.043	togeauchy	0.046	0.034
L(0.25, 1)	0.083	0.051 $0.054$	0.067	0.034	0.055	0.037 $0.047$	0.030	0.06	0.644		0.040 $0.109$	0.094
L(0.25, 1) L(0.5, 1)	0.003 $0.214$	0.089	0.007	0.040	0.095	0.047 $0.052$	0.047	0.00	0.044 $0.987$		0.109 $0.202$	0.03
L(0.5, 1) L(0.75, 1)	$0.214 \\ 0.532$	0.089	0.139	0.050	0.095	0.032 $0.047$	0.048	0.099 $0.227$	0.987		$0.202 \\ 0.355$	0.325 $0.715$
	0.332 $0.812$	$0.131 \\ 0.336$	0.661	0.059	0.509	0.047	0.044	0.227	1		0.529	$0.713 \\ 0.923$
L(1, 1)												
L(0, 1)	0.054	0.048	0.051	0.06	0.048	0.059	0.061	0.044	0.047		0.046	0.038
L(0, 1.5)	0.142	0.103	0.137	0.068	0.132	0.066	0.059	0.15	0.214		0.203	0.148
L(0,2)	0.332	0.216	0.31	0.114	0.293	0.085	0.065	0.327	0.534		0.459	0.364
L(0, 2.5)	0.577	0.369	0.543	0.185	0.523	0.14	0.098	0.536	0.808		0.682	0.595
L(0, 3)	0.746	0.501	0.723	0.22	0.708	0.141	0.113	0.693	0.927		0.855	0.762
L(0, 1)	0.05	0.056	0.054	0.058	0.053	0.058	0.062	0.046	0.055		0.055	0.044
L(0.25, 1.25)	0.157	0.09	0.134	0.054	0.112	0.054	0.046	0.111	0.748		0.209	0.188
L(0.5, 1.5)	0.434	0.186	0.343	0.068	0.296	0.049	0.059	0.275	0.989		0.505	0.586
L(0.75, 1.75)	0.77	0.401	0.687	0.115	0.611	0.066	0.055	0.503	0.999		0.739	0.877
L(1, 2)	0.924	0.562	0.876	0.141	0.837	0.079	0.062	0.699	1		0.87	0.973
L(0, 1)	0.052	0.049	0.05	0.059	0.05	0.061	0.055	0.046	0.055		0.054	0.042
L(0.25, 1.5)	0.248	0.143	0.215	0.079	0.187	0.063	0.056	0.202	0.811		0.384	0.312
1 2(0.20, 1.0)	0.210	0.110	1 0.210	0.010	0.101	1 0.000	1 0.000	0.202	0.011		0.001	0.912

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