Notes: The columns represent the pairs being compared (A, B), p-value (pval), and CLES. Values in bold indicate significant differences at p < 0.05 with the better performer highlighted based on CLES. "*" indicates missing p-values due to lack of variability in data.

Table 1. Games-Howell Test Results Account-13

A	В	pval	CLES	A	В	pval	CLES A		В	pval	CLES
A2C_1	A2C_2	0.00000	0.50000	A2C_1	greedy	*	0.50000 PF	PO	allRound	0.00606	0.66200
$A2C_{-}1$	PPO	0.00000	0.82500	$A2C_{-1}$	random	*	0.50000 PP	PO	greedy	0.00000	0.17500
$A2C_{-}1$	RecurrentPPO	0.00000	0.93800	A2C_2	PPO	0.00000	0.82500 PP	PO	random	0.00000	0.17500
$A2C_{-1}$	allRound	*	1.00000	A2C_2	RecurrentPPO	0.00000	0.93800 Re	ecurrentPPO	allRound	0.99700	0.47500
A2C_2	allRound	*	1.00000	A2C_2	greedy	*	0.50000 Re	ecurrentPPO	greedy	0.00000	0.06250
A2C_2	random	*	0.50000	allRound	greedy	*	0.00000 Re	ecurrentPPO	random	0.00000	0.06250

Table 2. Games-Howell Test Results Account-I4

A	В	pval	CLES	A	В	pval	CLES	$ \mathbf{A} $	В	pval	CLES
A2C_1		0.38312			RecurrentPPO				RecurrentPPO		
$A2C_{-1}$		0.95097			allRound	*	1.00000		allRound	*	1.00000
$A2C_{-1}$	greedy	0.78096	0.52500	A2C_1	random	0.95097	0.51250	PPO	greedy	0.99714	0.51250
$A2C_{-2}$	PPO	0.80753	0.46250	A2C_2	RecurrentPPO	0.00000	0.77625	PPO	random	1.00000	0.50000
$A2C_{-2}$	allRound	*	1.00000	A2C_2	greedy	0.97953	0.47500	RecurrentPPO	allRound	*	0.98750
$A2C_{-2}$	random	0.80753	0.46250	RecurrentPPO	greedy	0.00000	0.19938	RecurrentPPO	random	0.00000	0.18719
allRound	greedy	0.00000	0.00000	allRound	random	0.00000	0.00000	greedy	random	0.99714	0.48750

Table 3. Games-Howell Test Results Account-15

A	В	pval	CLES	A	В	pval	CLES	A	В	pval	CLES
A2C_1	A2C_2	*	0.50000	A2C_1	PPO	0.00000	1.00000	PPO	RecurrentPPO	0.15937	0.62063
$A2C_{-1}$	RecurrentPPO	0.00000	1.00000	A2C_1	allRound	*	1.00000	PPO	allRound	0.00000	1.00000
$A2C_{-1}$	greedy	0.00000	0.90000	A2C_1	random	0.00000	0.92500	PPO	greedy	0.02151	0.58031
A2C_2	PPO	0.00000	1.00000	A2C_2	RecurrentPPO	0.00000	1.00000	PPO	random	0.01672	0.59438
A2C_2	allRound	*	1.00000	A2C_2	greedy	0.00000	0.90000	RecurrentPPO	allRound	0.00000	1.00000
A2C_2	random	0.00000	0.92500	RecurrentPPO	greedy	0.07787	0.56844	RecurrentPPO	random	0.06683	0.58781
allRound	greedy	0.00000	0.00000	allRound	random	0.00000	0.00000	greedy	random	1.00000	0.47313

Table 4. Games-Howell Test Results Account-I10

A	В	pval	CLES	A	В	pval	CLES	A	В	pval	CLES
A2C_1	A2C_2	0.97749	0.57219	A2C_1	PPO	0.00000	0.00000	A2C_1	RecurrentPPO	0.00000	0.00000
A2C_1	allRound	0.00000	0.95000	A2C_1	greedy	0.00462	0.71313	A2C_1	random	0.00284	0.72000
A2C_2	PPO	0.00000	0.00000	A2C_2	RecurrentPPO	0.00000	0.00000	A2C_2	allRound	0.00000	0.91250
A2C_2	greedy	0.30428	0.59781	A2C_2	random	0.24433	0.60500	PPO	RecurrentPPO	0.99974	0.48094
PPO	allRound	0.00000	1.00000	PPO	greedy	0.00000	1.00000	PPO	random	0.00000	1.00000
RecurrentPPO	allRound	0.00000	1.00000	RecurrentPPO	greedy	0.00000	1.00000	RecurrentPPO	random	0.00000	1.00000
allRound	greedy	0.00000	0.00000	allRound	random	0.00000	0.00000	greedy	random	0.99997	0.51250

Table 5. Games-Howell Test Results Budget-I3

A	В	pval	CLES	A	В	pval	CLES	A	В	pval	CLES
A2C_1 A2C_1 A2C_1	A2C_2 RecurrentPPO greedy	0.00000	0.50000	A2C_1 A2C_1	PPO allRound random	*	0.81250 0.50000 0.50000	PPO PPO	RecurrentPPO allRound greedy	$\begin{array}{c} 0.00000 \\ 0.00000 \end{array}$	0.18750 0.18750
A2C.2 A2C.2 A2C.2 allRound	PPO allRound random greedy	0.78096		A2C_2		$0.78096 \\ 0.00000$	0.47500	RecurrentPPO RecurrentPPO		0.00000 0.00000 0.00000 *	0.15000

Table 6. Games-Howell Test Results Budget-I4

A	В	pval	CLES	$ \mathbf{A} $	В	pval	CLES	A	В	pval	CLES
A2C_1 A2C_1 A2C_1	A2C_2 RecurrentPPO greedy	0.00000	0.97438 1.00000 0.33188	A2C_1	allRound	0.00000 0.00000 0.01495	1.00000	PPO	allRound greedy random	0.00000	0.00000
A2C_2 A2C_2 A2C_2 allRound	PPO allRound random	0.00002 1.00000 0.00000	0.78875 0.50000 0.00125	A2C_2 A2C_2 PPO	RecurrentPPO greedy RecurrentPPO	$\begin{array}{c} 0.00000 \\ 0.00009 \end{array}$	0.00094 0.77469	RecurrentPPO RecurrentPPO RecurrentPPO greedy	allRound greedy random	$\begin{array}{c} 0.00000 \\ 0.00000 \\ 0.00000 \end{array}$	0.01250

Table 7. Games-Howell Test Results Budget-I5

A	В	pval	CLES	A	В	pval	CLES	A	В	pval	CLES
A2C_1	A2C_2	0.34053	0.63844	A2C_1	PPO	0.00001	0.80500	A2C_1	RecurrentPPO	0.00000	0.84656
A2C_1	allRound	0.00000	1.00000	A2C_1	greedy	0.85159	0.58813	A2C_1	random	0.37016	0.62813
A2C_2	PPO	0.02063	0.69281	A2C_2	RecurrentPPO	0.00102	0.73719	A2C_2	allRound	0.00000	1.00000
A2C_2	greedy	0.99852	0.47281	A2C_2	random	1.00000	0.48844	PPO	RecurrentPPO	0.99047	0.53438
PPO	allRound	0.00000	1.00000	PPO	greedy	0.02200	0.30906	PPO	random	0.01427	0.29969
RecurrentPPO	allRound	0.00000	1.00000	RecurrentPPO	greedy	0.00243	0.27344	RecurrentPPO	random	0.00059	0.25719
allRound				allRound	random	0.00000	0.00000	greedy	random	0.99927	0.51969

Table 8. Games-Howell Test Results Budget-I10

A	В	pval	CLES	A	В	pval	CLES	A	В	pval	CLES
A2C_1	A2C_2	0.00000	0.14813	A2C_1	PPO	0.00000	0.01156	A2C_1	RecurrentPPO	0.00000	0.00094
A2C_1	allRound	0.00000	0.92500	A2C_1	greedy	0.00000	0.92500	A2C_1	random	0.00000	0.92000
A2C_2	PPO	0.00000	0.07469	A2C_2	RecurrentPPO	0.00000	0.02281	A2C_2	allRound	0.00000	1.00000
A2C_2	greedy	0.00000	1.00000	A2C_2	random	0.00000	0.99969	PPO	RecurrentPPO	0.00000	0.18812
PPO	allRound	0.00000	1.00000	PPO	greedy	0.00000	1.00000	PPO	random	0.00000	1.00000
RecurrentPPO	allRound	0.00000	1.00000	RecurrentPPO	greedy	0.00000	1.00000	RecurrentPPO	random	0.00000	1.00000
allRound	greedy	*	0.50000	allRound	random	0.95097	0.48750	greedy	random	0.95097	0.48750

Table 9. Games-Howell Test Results Transaction-I3

A	В	pval	CLES	A	В	pval	CLES	A	В	pval	CLES
A2C_1	A2C_2		0.17469		PPO		0.81281		RecurrentPPO		
A2C_1	allRound	0.00000	0.07500	A2C_1	greedy	0.00000	0.07500	A2C_1	random	0.00000	0.07500
A2C_2	PPO	0.00000	0.96125	A2C_2	RecurrentPPO	0.00000	0.99625	A2C_2	allRound	0.00068	0.28750
A2C_2	greedy	0.00068	0.28750	A2C_2	random	0.00068	0.28750	PPO	RecurrentPPO	0.00001	0.79500
PPO	allRound	0.00000	0.01250	PPO	greedy	0.00000	0.01250	PPO	random	0.00000	0.01250
RecurrentPPO	allRound	0.00000	0.00000	RecurrentPPO	greedy	0.00000	0.00000	RecurrentPPO	random	0.00000	0.00000
allRound	greedy	*	0.50000	allRound	random	*	0.50000	greedy	random	*	0.50000

Table 10. Games-Howell Test Results Transaction-I4

A	В	pval	CLES	A	В	pval	CLES	A	В	pval	CLES
A2C_1	A2C_2	0.00001	0.08344	A2C_1	PPO	0.82583	0.57813	A2C_1	RecurrentPPO	0.12482	0.65406
A2C_1	allRound	0.00000	0.10000	A2C_1	greedy	0.00034	0.09469	A2C_1	random	0.00000	0.06406
A2C_2	PPO	0.00000	0.95250	A2C_2	RecurrentPPO	0.00000	0.95875	A2C_2	allRound	0.01612	0.68750
A2C_2	greedy	0.99616	0.44438	A2C_2	random	0.89278	0.42594	PPO	RecurrentPPO	0.75878	0.58344
PPO	allRound	0.00000	0.05000	PPO	greedy	0.00001	0.06875	PPO	random	0.00000	0.03469
RecurrentPPO	allRound	0.00000	0.05000	RecurrentPPO	greedy	0.00000	0.06875	RecurrentPPO	random	0.00000	0.03000
allRound	greedy	0.99746	0.23750	allRound	random	0.00006	0.22500	greedy	random	0.90858	0.47969

Table 11. Games-Howell Test Results Transaction-I5

A	В	pval	CLES	A	В	pval	CLES	A	В	pval	CLES
A2C_1	A2C_2	0.00003	0.21563	A2C_1	PPO	0.06510	0.67531	A2C_1	RecurrentPPO	0.00001	0.80719
A2C_1	allRound	0.00000	0.02500	A2C_1	greedy	0.00000	0.04063	A2C_1	random	0.00000	0.02375
A2C_2	PPO	0.00000	0.89281	A2C_2	RecurrentPPO	0.00000	0.97281	A2C_2	allRound	0.00001	0.17500
A2C_2	greedy	0.00000	0.15438	A2C_2	random	0.00001	0.10688	PPO	RecurrentPPO	0.18607	0.62750
PPO	allRound	0.00000	0.00000	PPO	greedy	0.00000	0.01500	PPO	random	0.00000	0.00625
RecurrentPPO	allRound	0.00000	0.00000	RecurrentPPO	greedy	0.00000	0.00188	RecurrentPPO	random	0.00000	0.00000
					random	0.00005	0.22500	greedy	random	0.70765	0.41219

Table 12. Games-Howell Test Results Transaction-I10

A	В	pval	CLES	A	В	pval	CLES	A	В	pval	CLES
A2C_1	A2C_2	0.58400	0.40125	A2C_1	PPO	0.94483	0.44625	A2C_1	RecurrentPPO	0.60755	0.39688
A2C_1	allRound	0.00001	1.00000	A2C_1	greedy	0.00000	1.00000	A2C_1	random	0.00001	1.00000
A2C_2	PPO	0.98631	0.55000	A2C_2	RecurrentPPO	1.00000	0.49906	A2C_2	allRound	0.00001	1.00000
A2C_2	greedy	0.00001	1.00000	A2C_2	random	0.00000	1.00000	PPO	RecurrentPPO	0.99173	0.44344
PPO	allRound	0.00001	1.00000	PPO	greedy	0.00000	1.00000	PPO	random	0.00001	1.00000
RecurrentPPO	allRound	0.00001	1.00000	RecurrentPPO	greedy	0.00000	1.00000	RecurrentPPO	random	0.00000	1.00000
allRound	greedy	0.56994	0.46250	allRound	random	0.78096	0.47500	greedy	random	0.99928	0.51250

Table 13. Games-Howell Test Results Calculator-I3

A	В	pval	CLES	A	В	pval	CLES	A	В	pval	CLES
A2C_1	A2C_2	0.00000	1.00000	A2C_1	PPO	0.46776	0.60031	A2C_1	RecurrentPPO	0.00000	0.99344
$A2C_{-}1$	allRound	0.00000	1.00000	A2C_1	greedy	0.00803	0.32438	A2C_1	random	0.00193	0.30375
A2C_2	PPO	0.00000	0.00000	A2C_2	RecurrentPPO	0.00000	0.02250	A2C_2	allRound	0.00000	0.00000
A2C_2	greedy	0.00000	0.00000	A2C_2	random	0.00000	0.00000	PPO	RecurrentPPO	0.00000	0.97750
PPO	allRound	0.00000	0.93750	PPO	greedy	0.00012	0.24000	PPO	random	0.00004	0.22250
RecurrentPPO	allRound	0.00000	0.12500	RecurrentPPO				RecurrentPPO	random	0.00000	0.00000
allRound	greedy	0.00000	0.00000	allRound	random	0.00000	0.00000	greedy	random	0.99388	0.47500

Table 14. Games-Howell Test Results Calculator-I4

A	В	pval	CLES A	В	pval	CLES A	В	pval	CLES
A2C_1	A2C_2	0.00000	1.00000 A2C_1	PPO	0.99996	0.51781 A2C_1	RecurrentPPO	0.00000	0.85156
A2C_1	allRound	0.00531	0.71250 A2C_1	greedy	0.03454	0.69188 A2C_1	random	0.00269	0.73063
A2C_2	PPO	0.00000	0.00313 A2C_2	RecurrentPPO	0.00000	0.04188 A2C_2	allRound	0.00000	0.00000
A2C_2	greedy	0.00000	0.02844 A2C_2	random	0.00000	0.03000 PPO	RecurrentPPO	0.00000	0.84688
PPO	allRound	0.01507	0.71250 PPO	greedy	0.06704	0.67938 PPO	random	0.00650	0.72125
RecurrentPPO	allRound	0.00001	0.16250 RecurrentPPO	greedy	0.08134	0.33500 RecurrentPP) random	0.20404	0.35094
allRound	greedy	0.98857	0.52500 allRound	random	0.62212	0.57500 greedy	random	0.99770	0.52781

Table 15. Games-Howell Test Results Calculator-I5

A	В	pval	CLES	A	В	pval	CLES	A	В	pval	CLES
A2C_1	A2C_2	0.00007	0.78250	A2C_1	PPO	0.37848	0.60813	A2C_1	RecurrentPPO	0.99484	0.54313
A2C_1	allRound	0.00000	0.82500	A2C_1	greedy	0.93669	0.56313	A2C_1	random	0.83938	0.58781
A2C_2	PPO	0.00323	0.31000	A2C_2	RecurrentPPO	0.00056	0.26750	A2C_2	allRound	0.38312	0.55000
A2C_2	greedy	0.00163	0.30250	A2C_2	random	0.00581	0.29625	PPO	RecurrentPPO	0.81056	0.43938
PPO	allRound	0.00004	0.73750	PPO	greedy	0.96244	0.46438	PPO	random	0.99560	0.48156
RecurrentPPO	allRound	0.00003	0.77500	RecurrentPPO	greedy	0.99961	0.52313	RecurrentPPO	random	0.99341	0.54125
allRound	greedy	0.00008	0.26250	allRound	random	0.00032	0.25000	greedy	random	1.00000	0.51719