### accuracy

	epoch	noisy_train	Qest B B X & III
0	100.0	0.4498640893989731	0.4137291280148423
1	200.0	0.4498640893989731	0.4137291280148423
2	300.0	0.4498640893989731	0.4137291280148423
3	400.0	0.4498640893989731	0.4137291280148423
4	500.0	0.4498640893989731	0.4137291280148423
5	600.0	0.4498640893989731	0.4137291280148423
6	700.0	0.4498640893989731	0.4137291280148423
7	800.0	0.4498640893989731	0.4137291280148423
8	900.0	0.5528541226215645	0.588126159554731
9	1000.0	0.5508909694956207	0.5862708719851577
10	1100.0	0.5513440048323769	0.5862708719851577
11	1200.0	0.5699184536393839	0.6196660482374768
12	1300.0	0.561763817577771	0.5974025974025974
13	1400.0	0.5900030202355784	0.6549165120593692
14	1500.0	0.5966475385080037	0.6623376623376623
15	1600.0	0.6164300815463606	0.7365491651205937
16	1700.0	0.5972515856236786	0.7532467532467533
17	1800.0	0.6103896103896104	0.7532467532467533
18	1900.0	0.5986106916339474	0.7532467532467533
19	2000.0	0.5990637269707038	0.7606679035250464
20	2100.0	0.5771670190274841	0.7291280148423006
21	2200.0	0.5696164300815464	0.712430426716141
22	2300.0	0.593325279371791	0.7606679035250464
23	2400.0	0.5816973723950468	0.7235621521335807
24	2500.0	0.5838115372999094	0.7328385899814471
25	2600.0	0.5842645726366656	0.7291280148423006
26	2700.0	0.5856236786469344	0.7272727272727273
27	2800.0	0.5928722440350347	0.7346938775510204
28	2900.0	0.5829054666263969	0.7235621521335807
29	3000.0	0.5952884324977348	0.7328385899814471
30	3100.0	0.5972515856236786	0.7328385899814471

31	3200.0	0.5981576562971912	0.738404452690167
32	3300.0	0.6046511627906976	0.7569573283858998
33	3400.0	0.6168831168831169	0.7717996289424861
34	3500.0	0.6229235880398671	0.7866419294990723
35	3600.0	0.628511023859861	0.7959183673469388
36	3700.0	0.6301721534279674	0.8126159554730983
37	3800.0	0.6395348837209303	0.8070500927643784
38	3900.0	0.6552401087284808	0.8404452690166976
39	4000.0	0.6733615221987315	0.8608534322820037
40	4100.0	0.6925400181214135	0.8998144712430427
41	4200.0	0.6899728178797946	0.9016697588126159
42	4300.0	0.7047719722138327	0.8961038961038961
43	4400.0	0.7123225611597704	0.9128014842300557
44	4500.0	0.6893687707641196	0.862708719851577
45	4600.0	0.7171549380851706	0.9128014842300557
46	4700.0	0.7236484445786772	0.9072356215213359
47	4800.0	0.712020537601933	0.9165120593692022
48	4900.0	0.7224403503473271	0.8961038961038961
49	5000.0	0.7201751736635458	0.9239332096474954
50	5100.0	0.7289338568408336	0.8831168831168831
51	5200.0	0.7310480217456962	0.8961038961038961
52	5300.0	0.7310480217456962	0.8942486085343229
53	5400.0	0.7287828450619148	0.8923933209647495
54	5500.0	0.7328601630927213	0.8942486085343229
55	5600.0	0.7307459981878587	0.8961038961038961
56	5700.0	0.7331621866505588	0.8923933209647495
57	5800.0	0.7315010570824524	0.8849721706864564
58	5900.0	0.733615221987315	0.8923933209647495
59	6000.0	0.7346723044397463	0.8923933209647495
60	6100.0	0.7340682573240713	0.8775510204081632
61	6200.0	0.7357293868921776	0.8923933209647495
62	6300.0	0.7376925400181215	0.8868274582560297
63	6400.0	0.7370884929024464	0.8868274582560297
64	6500.0	0.7389006342494715	0.8831168831168831

65     6600.0     0.7354273633343401     0.8738404452690167       66     6700.0     0.7405617638175778     0.8831168831168831       67     6800.0     0.739202657807309     0.8961038961038961       68     6900.0     0.7358803986710963     0.8738404452690167       69     7000.0     0.7413168227121716     0.8794063079777366       70     7100.0     0.7440350347327092     0.8831168831168831       71     7200.0     0.7420718816067653     0.8905380333951762       72     7300.0     0.7456961643008154     0.8831168831168831       73     7400.0     0.7390516460283902     0.8664192949907236       74     7500.0     0.7447810329205678     0.8849721706864564       76     7700.0     0.7497734823316219     0.8905380333951762       77     7800.0     0.7497734823316219     0.8905380333951762       77     7800.0     0.749734823316219     0.886827458256029       78     7900.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099       81     8200.0     0.7524916943521595     0.8942486085343229 <th></th> <th></th> <th></th> <th></th>				
67     6800.0     0.739202657807309     0.8961038961038961       68     6900.0     0.7358803986710963     0.8738404452690167       69     7000.0     0.7413168227121716     0.8794063079777366       70     7100.0     0.7440350347327092     0.8831168831168831       71     7200.0     0.7420718816067653     0.8905380333951762       72     7300.0     0.7456961643008154     0.8831168831168831       73     7400.0     0.7390516460283902     0.8664192949907236       74     7500.0     0.7444880700694654     0.8775510204081632       75     7600.0     0.747810329205678     0.8849721706864564       76     7700.0     0.7497734823316219     0.8905380333951762       77     7800.0     0.7476593174267593     0.8849721706864564       79     8000.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	65	6600.0	0.7354273633343401	0.8738404452690167
68     6900.0     0.7358803986710963     0.8738404452690167       69     7000.0     0.7413168227121716     0.8794063079777366       70     7100.0     0.7440350347327092     0.8831168831168831       71     7200.0     0.7420718816067653     0.8905380333951762       72     7300.0     0.7456961643008154     0.8831168831168831       73     7400.0     0.7390516460283902     0.8664192949907236       74     7500.0     0.7444880700694654     0.8775510204081632       75     7600.0     0.7497810329205678     0.8849721706864564       76     7700.0     0.7497734823316219     0.8905380333951762       77     7800.0     0.7499244941105406     0.8886827458256029       78     7900.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	66	6700.0	0.7405617638175778	0.8831168831168831
69     7000.0     0.7413168227121716     0.8794063079777366       70     7100.0     0.7440350347327092     0.8831168831168831       71     7200.0     0.7420718816067653     0.8905380333951762       72     7300.0     0.7456961643008154     0.8831168831168831       73     7400.0     0.7390516460283902     0.8664192949907236       74     7500.0     0.7444880700694654     0.8775510204081632       75     7600.0     0.7497810329205678     0.8849721706864564       76     7700.0     0.7497734823316219     0.8905380333951762       77     7800.0     0.7499244941105406     0.8886827458256029       78     7900.0     0.7476593174267593     0.8849721706864564       79     8000.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	67	6800.0	0.739202657807309	0.8961038961038961
70     7100.0     0.7440350347327092     0.8831168831168831       71     7200.0     0.7420718816067653     0.8905380333951762       72     7300.0     0.7456961643008154     0.8831168831168831       73     7400.0     0.7390516460283902     0.8664192949907236       74     7500.0     0.7444880700694654     0.8775510204081632       75     7600.0     0.747810329205678     0.8849721706864564       76     7700.0     0.7497734823316219     0.8905380333951762       77     7800.0     0.7499244941105406     0.8886827458256029       78     7900.0     0.7476593174267593     0.8849721706864564       79     8000.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	68	6900.0	0.7358803986710963	0.8738404452690167
71     7200.0     0.7420718816067653     0.8905380333951762       72     7300.0     0.7456961643008154     0.8831168831168831       73     7400.0     0.7390516460283902     0.8664192949907236       74     7500.0     0.7444880700694654     0.8775510204081632       75     7600.0     0.747810329205678     0.8849721706864564       76     7700.0     0.7497734823316219     0.8905380333951762       77     7800.0     0.7499244941105406     0.8886827458256029       78     7900.0     0.7476593174267593     0.8849721706864564       79     800.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	69	7000.0	0.7413168227121716	0.8794063079777366
72     7300.0     0.7456961643008154     0.8831168831168831       73     7400.0     0.7390516460283902     0.8664192949907236       74     7500.0     0.7444880700694654     0.8775510204081632       75     7600.0     0.747810329205678     0.8849721706864564       76     7700.0     0.7497734823316219     0.8905380333951762       77     7800.0     0.7499244941105406     0.8886827458256029       78     7900.0     0.7476593174267593     0.8849721706864564       79     8000.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	70	7100.0	0.7440350347327092	0.8831168831168831
73     7400.0     0.7390516460283902     0.8664192949907236       74     7500.0     0.7444880700694654     0.8775510204081632       75     7600.0     0.747810329205678     0.8849721706864564       76     7700.0     0.7497734823316219     0.8905380333951762       77     7800.0     0.7499244941105406     0.8886827458256029       78     7900.0     0.7476593174267593     0.8849721706864564       79     8000.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	71	7200.0	0.7420718816067653	0.8905380333951762
74     7500.0     0.7444880700694654     0.8775510204081632       75     7600.0     0.747810329205678     0.8849721706864564       76     7700.0     0.7497734823316219     0.8905380333951762       77     7800.0     0.7499244941105406     0.8886827458256029       78     7900.0     0.7476593174267593     0.8849721706864564       79     8000.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	72	7300.0	0.7456961643008154	0.8831168831168831
75     7600.0     0.747810329205678     0.8849721706864564       76     7700.0     0.7497734823316219     0.8905380333951762       77     7800.0     0.7499244941105406     0.8886827458256029       78     7900.0     0.7476593174267593     0.8849721706864564       79     8000.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	73	7400.0	0.7390516460283902	0.8664192949907236
76     7700.0     0.7497734823316219     0.8905380333951762       77     7800.0     0.7499244941105406     0.8886827458256029       78     7900.0     0.7476593174267593     0.8849721706864564       79     8000.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	74	7500.0	0.7444880700694654	0.8775510204081632
77     7800.0     0.7499244941105406     0.8886827458256029       78     7900.0     0.7476593174267593     0.8849721706864564       79     8000.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	75	7600.0	0.747810329205678	0.8849721706864564
78     7900.0     0.7476593174267593     0.8849721706864564       79     8000.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	76	7700.0	0.7497734823316219	0.8905380333951762
79     8000.0     0.7517366354575656     0.8868274582560297       80     8100.0     0.7517366354575656     0.8812615955473099	77	7800.0	0.7499244941105406	0.8886827458256029
<b>80</b> 8100.0 0.7517366354575656 0.8812615955473099	78	7900.0	0.7476593174267593	0.8849721706864564
	79	8000.0	0.7517366354575656	0.8868274582560297
81     8200.0     0.7524916943521595     0.8942486085343229	80	8100.0	0.7517366354575656	0.8812615955473099
	81	8200.0	0.7524916943521595	0.8942486085343229

## loss

	epoch	noisy_train	Q <sub>est</sub> → H E ⊠ ☆ iiii
0	100.0	0.7129602420733171	0.7227085688534904
1	200.0	0.7031203511256526	0.708913571694318
2	300.0	0.6987763867861982	0.7024019886465633
3	400.0	0.6959937707237576	0.6979869148310494
4	500.0	0.6945880789687668	0.6956435862709495
5	600.0	0.6938500361166139	0.6943715986083535
6	700.0	0.693371243810884	0.6935261628207039
7	800.0	0.6931811222707592	0.6931829838191762
8	900.0	0.69305872341285	0.6929579622605267
9	1000.0	0.693037990498658	0.6929158533320707
10	1100.0	0.6930281341363842	0.6928916573524475
11	1200.0	0.6930422267476142	0.692911751130048
12	1300.0	0.6930228419925856	0.6928708448129541

13	1400.0	0.6930291960780747	0.6928755360491136
14	1500.0	0.6930189817999872	0.6928497622994816
15	1600.0	0.6930418607693364	0.6928845854366527
16	1700.0	0.693041996103554	0.6928780464565053
17	1800.0	0.6930245751344063	0.6928394997821135
18	1900.0	0.6930181611563273	0.6928188099580652
19	2000.0	0.6930057043614595	0.6927874263595132
20	2100.0	0.6930037293457179	0.6927729845046997
21	2200.0	0.6929937229640242	0.6927441358566284
22	2300.0	0.6929571003729594	0.6926655909594368
23	2400.0	0.6929481075581722	0.6926361252279842
24	2500.0	0.6929190587882258	0.6925663422135746
25	2600.0	0.6928906224776006	0.6924974602811477
26	2700.0	0.6928474862794369	0.6923956906094271
27	2800.0	0.6927897705548052	0.692266955095179
28	2900.0	0.6927334502123405	0.6921287669855005
29	3000.0	0.6926245202764797	0.6918847911498126
30	3100.0	0.6924630769209009	0.6915178614504197
31	3200.0	0.6922346969733492	0.6910014152526855
32	3300.0	0.691764573832065	0.689949302112355
33	3400.0	0.6910475141184341	0.6883429534295026
34	3500.0	0.6896820598178439	0.685196603045744
35	3600.0	0.6869010893619003	0.6786505299455979
36	3700.0	0.6799217986599835	0.6619736026315128
37	3800.0	0.6677829251773115	0.6330176872365615
38	3900.0	0.6412823744442152	0.568526441560072
39	4000.0	0.6045474687924132	0.47566942607655244
40	4100.0	0.576143074510754	0.3971879438442342
41	4200.0	0.5691499497723465	0.390613655833637
42	4300.0	0.561206202864071	0.38071075169479146
43	4400.0	0.5477280626838333	0.3466336525538388
44	4500.0	0.5533767845751583	0.3727119836737128
45	4600.0	0.534762778431897	0.324578476302764

46	4700.0	0.5278996013932757	0.3183518963701585
47	4800.0	0.5388315282582085	0.33756820156293754
48	4900.0	0.5356030808266811	0.35022499894394593
49	5000.0	0.5274481447998453	0.31772296481272755
50	5100.0	0.5338656655400271	0.35169750977964964
51	5200.0	0.5234823702038198	0.32805591383401084
52	5300.0	0.5240863581066546	0.33200503885746
53	5400.0	0.5210923736078151	0.3227602243423462
54	5500.0	0.5187916759995447	0.3216365496901905
55	5600.0	0.5204755874791583	0.32968395948410034
56	5700.0	0.5160878754900273	0.3175131266607958
57	5800.0	0.5181993286390811	0.32798950812395883
58	5900.0	0.5142528088628382	0.31924743555924473
59	6000.0	0.5131774973034283	0.3183108257020221
60	6100.0	0.5165898780459943	0.32936634736902576
61	6200.0	0.5107305566037911	0.3112700095071512
62	6300.0	0.5120820017972431	0.32197894418940826
63	6400.0	0.5082362716036718	0.31296325694112215
64	6500.0	0.5104001129882924	0.321307654328206
65	6600.0	0.5109747705828165	0.32277428797062707
66	6700.0	0.5062836522353444	0.3127844123279347
67	6800.0	0.5022624140776298	0.3021395311636083
68	6900.0	0.5110437925455075	0.3335704913034159
69	7000.0	0.5066596222096595	0.32148478136343117
70	7100.0	0.503979454797823	0.3161640850936665
71	7200.0	0.5005654622823144	0.3090396803968093
72	7300.0	0.501251764199584	0.31528322091873956
73	7400.0	0.5064895487781884	0.32897907670806437
74	7500.0	0.5029353472057748	0.32384581557091546
75	7600.0	0.4954303498717322	0.305508826585377
76	7700.0	0.4954095364048861	0.3059304523117402
77	7800.0	0.49686273658909086	0.3162187399233089
78	7900.0	0.49564499447599125	0.31162206039709206
79	8000.0	0.49386817332051225	0.31159257099908944

80	8100.0	0.4936499049266179	0.3149770384325701
81	8200.0	0.48990235056566156	0.3043694855535732

# normalised\_entropy

	epoch	noisy_train	Q <sub>est</sub> → H E 🗵 🖈 ⅲ
0	100.0	0.9892435958111117	0.9892442381227171
1	200.0	0.9961803940911553	0.9961797186970047
2	300.0	0.9984955094941467	0.9984950417711473
3	400.0	0.9995398122498867	0.9995396283208108
4	500.0	0.9998668963294921	0.9998668996212876
5	600.0	0.9999649871047332	0.9999650166074509
6	700.0	0.9999955922446198	0.9999956155752207
7	800.0	0.999996684750413	0.9999996673640603
8	900.0	0.9999997848400138	0.9999997699857864
9	1000.0	0.9999996497529542	0.9999996213612176
10	1100.0	0.9999996125968119	0.9999995576649738
11	1200.0	0.9999997842639495	0.9999997345989843
12	1300.0	0.9999996776920689	0.9999995859744155
13	1400.0	0.9999997753349541	0.9999996921348218
14	1500.0	0.9999997502761606	0.9999996355159384
15	1600.0	0.9999998830589634	0.9999998018339082
16	1700.0	0.9999998856512523	0.9999998089112687
17	1800.0	0.9999998528155918	0.9999997345989843
18	1900.0	0.9999998349576009	0.9999997133669031
19	2000.0	0.9999998044261973	0.9999996602867
20	2100.0	0.9999997718785688	0.999999628438578
21	2200.0	0.999999714848211	0.999999543510253
22	2300.0	0.9999996563776927	0.9999993878083238
23	2400.0	0.9999995904183395	0.9999993276507603
24	2500.0	0.9999994720371422	0.999999122407308
25	2600.0	0.9999993412705643	0.999998934857257
26	2700.0	0.9999991215020643	0.9999986022213173
27	2800.0	0.999998848447624	0.9999981705023318

28	2900.0	0.9999983659938396	0.9999975229238535
29	3000.0	0.9999976649236838	0.9999964542424303
30	3100.0	0.999996155635427	0.9999942637993807
			5,000,000
31	3200.0	0.999993501707565	0.9999903358643484
32	3300.0	0.9999863999878593	0.9999799109124518
33	3400.0	0.9999707131830813	0.9999569661099748
34	3500.0	0.9999224678046463	0.9998825405878127
35	3600.0	0.9997520608075325	0.9996106390165708
36	3700.0	0.9988480492755748	0.9981009814204002
37	3800.0	0.9955901782774054	0.9922666815083633
38	3900.0	0.9798300981305582	0.9640520941569766
39	4000.0	0.9349917363126773	0.8750930283640223
40	4100.0	0.8876845208009324	0.7844007736234364
41	4200.0	0.8836527559124282	0.7588494129216296
42	4300.0	0.8845406088430116	0.7574440154604655
43	4400.0	0.8642136570335118	0.7300481637024039
44	4500.0	0.8701893597058176	0.7240113610460497
45	4600.0	0.846012624143222	0.6911784563082268
46	4700.0	0.839162258826797	0.6723700932094029
47	4800.0	0.8556814504800265	0.7356959751674107
48	4900.0	0.8527815118004497	0.691449750995813
49	5000.0	0.8459864938701974	0.6850211899001877
50	5100.0	0.8625633852678424	0.6969409475521166
51	5200.0	0.8450829941712993	0.6765051701957971
52	5300.0	0.8439203172751115	0.6683740491990919
53	5400.0	0.8392356538729379	0.6599261013165476
54	5500.0	0.8346506943698377	0.655479723093461
55	5600.0	0.8380742675046192	0.6563248749345486
56	5700.0	0.8314646607401579	0.6488341152778583
57	5800.0	0.8350657626099904	0.6508811586199532
58	5900.0	0.8268736515546342	0.640619200103137
59	6000.0	0.8252926736899064	0.6380485117103704
60	6100.0	0.8314190890197846	0.6429088270509398

61	6200.0	0.8230437057250866	0.6349380701946195
62	6300.0	0.8253960839861724	0.6362313604974127
63	6400.0	0.8192344002765458	0.631342008516386
64	6500.0	0.8233854157872086	0.6330565185405328
65	6600.0	0.8244810592584544	0.6325743220511527
66	6700.0	0.817406973353472	0.6266900542052204
67	6800.0	0.8051879804179733	0.6197678826072
68	6900.0	0.8235148682186734	0.6325376170906817
69	7000.0	0.8216124553040989	0.6310964081857996
70	7100.0	0.8170318273718858	0.6261538114530036
71	7200.0	0.808847448106476	0.6189145457987882
72	7300.0	0.8125370214871862	0.6222706017998464
73	7400.0	0.8198977559399871	0.627899270774261
74	7500.0	0.8174995363604731	0.6264428313897581
75	7600.0	0.8012425936229709	0.610692142776744
76	7700.0	0.8040390887385731	0.611998412958545
77	7800.0	0.8092203609751129	0.6221818711629383
78	7900.0	0.8053972553321149	0.6100014366333913
79	8000.0	0.8049564067779513	0.6137148639487866
80	8100.0	0.8053493799309254	0.6147403150852182
81	8200.0	0.7995462825167975	0.6126421201206979

## max\_p

	epoch	noisy_train	<b>Q</b> est→ <b>E E X A iii</b>
0	100.0	0.5609803834878869	0.5609785656760928
1	200.0	0.5363675745114643	0.5363708011294561
2	300.0	0.5228304491414653	0.5228339887063446
3	400.0	0.5126279716007806	0.512630522804048
4	500.0	0.5067913135492849	0.5067912899717992
5	600.0	0.5034824755572725	0.5034808723294005
6	700.0	0.5012321460646685	0.5012273275343518
7	800.0	0.5003265826157017	0.5003184033678724
8	900.0	0.5002534768978154	0.5002655018680834

9	1000.0	0.5003277707481557	0.5003431210491344
10	1100.0	0.5003430989529567	0.5003639072566838
11	1200.0	0.5002430826830597	0.5002673136723506
12	1300.0	0.5003039314825345	0.5003322537622116
13	1400.0	0.5002409140893032	0.5002765602437375
14	1500.0	0.5002520070699579	0.5002941439456975
15	1600.0	0.5001472405745018	0.5002017224653311
16	1700.0	0.5001464749851532	0.5001990454537528
17	1800.0	0.5001675266760133	0.5002300619857873
18	1900.0	0.5001776786557643	0.5002421589640828
19	2000.0	0.5001947467185263	0.5002646702782343
20	2100.0	0.5002145077375011	0.5002776218478003
21	2200.0	0.5002400121167505	0.5003033887477443
22	2300.0	0.5002616866770485	0.5003511113890469
23	2400.0	0.5002882553349446	0.5003749160908149
24	2500.0	0.5003272947750939	0.5004246168543545
25	2600.0	0.5003663359434357	0.5004736151898725
26	2700.0	0.5004250684269819	0.5005453637004562
27	2800.0	0.5004874113930277	0.500626380014508
28	2900.0	0.500582882948276	0.5007298315610867
29	3000.0	0.5006974622656737	0.5008770017323113
30	3100.0	0.5008947158716698	0.5011122425765849
31	3200.0	0.5011559823098697	0.5014347879696424
32	3300.0	0.5016637002546885	0.5020626436137976
33	3400.0	0.5024231368053071	0.5030111921519207
34	3500.0	0.5038864829323508	0.5049202092724518
35	3600.0	0.506859347309745	0.5088805426914307
36	3700.0	0.5144848534075093	0.5192572482220539
37	3800.0	0.5279784759917816	0.5386261011098886
38	3900.0	0.5600498413182716	0.5838800122432674
39	4000.0	0.6082951172137685	0.6580820419792784
40	4100.0	0.6482004942183983	0.7186023202588253
41	4200.0	0.639038010185055	0.726680748537874
42	4300.0	0.6377379729358209	0.7306801896811859

43	4400.0	0.6634386414597309	0.756109163358614
44	4500.0	0.6419012596224846	0.7428832894574733
45	4600.0	0.6720195091660021	0.7702661631058674
46	4700.0	0.674827694064791	0.7774996960981436
47	4800.0	0.6844286176957454	0.757714726265817
48	4900.0	0.6611554426068231	0.7658592712458963
49	5000.0	0.6732140811538811	0.7743348703755961
50	5100.0	0.6453573134182371	0.7575321409830578
51	5200.0	0.6681599321771482	0.7744369436062334
52	5300.0	0.6634687105718605	0.7749380738040733
53	5400.0	0.6669951571110547	0.7788858077521669
54	5500.0	0.6728382660737033	0.7825138644075128
55	5600.0	0.6666664727250459	0.7791350794634704
56	5700.0	0.6742517784692412	0.7846595891552643
57	5800.0	0.6681361657836509	0.7806455368013683
58	5900.0	0.6765254195526409	0.7875572728314515
59	6000.0	0.6778228829469396	0.7890899389263429
60	6100.0	0.6694922166373283	0.7832742595495673
61	6200.0	0.6796982519506364	0.7901324624254442
62	6300.0	0.6760706825221784	0.7880121807883975
63	6400.0	0.6833319587672956	0.7926488391543585
64	6500.0	0.6772908208162105	0.7895229247593923
65	6600.0	0.6751453266587368	0.7884574033776108
66	6700.0	0.6834242984053952	0.793953900876868
67	6800.0	0.697970871333448	0.801506081405951
68	6900.0	0.67592212650503	0.7879403349641082
69	7000.0	0.6789406940894558	0.7904230234574299
70	7100.0	0.6835562012700364	0.794148606139344
71	7200.0	0.6921270169436986	0.7999588359485973
72	7300.0	0.6878616914256611	0.7966981863046622
73	7400.0	0.6789996436051968	0.7909035762298527
74	7500.0	0.6822158565192884	0.792723965335202
75	7600.0	0.6979784203670205	0.8040286366705107

76	7700.0	0.6946300315338476	0.8027324534966463
77	7800.0	0.6921982824244336	0.7985443051538131
78	7900.0	0.6917778200629398	0.8021367945343754
79	8000.0	0.6936198407089339	0.8012907456378547
80	8100.0	0.6931236601783156	0.8008187033913352
81	8200.0	0.6997238431081999	0.803921414660169

## metadata

	epoch	lr_change_ratio	batch_mean_eps	il <b>ba</b> tch_valid_ratio	batch Rean gtr	ıshatch_mean_et <mark>ilil</mark>
0	100.0	1.0	-1.0	-0.03125	-1.0	-1.0
1	200.0	1.0	-1.0	-0.03125	-1.0	-1.0
2	300.0	1.0	-1.0	-0.03125	-1.0	-1.0
3	400.0	1.0	-1.0	-0.03125	-1.0	-1.0
4	500.0	1.0	-1.0	-0.03125	-1.0	-1.0
5	600.0	1.0	-1.0	-0.03125	-1.0	-1.0
6	700.0	1.0	-1.0	-0.03125	-1.0	-1.0
7	800.0	1.0	-1.0	-0.03125	-1.0	-1.0
8	900.0	1.0	-1.0	-0.03125	-1.0	-1.0
9	1000.0	1.0	-1.0	-0.03125	-1.0	-1.0
10	1100.0	1.0	-1.0	-0.03125	-1.0	-1.0
11	1200.0	1.0	-1.0	-0.03125	-1.0	-1.0
12	1300.0	1.0	-1.0	-0.03125	-1.0	-1.0
13	1400.0	1.0	-1.0	-0.03125	-1.0	-1.0
14	1500.0	1.0	-1.0	-0.03125	-1.0	-1.0
15	1600.0	1.0	-1.0	-0.03125	-1.0	-1.0
16	1700.0	1.0	-1.0	-0.03125	-1.0	-1.0
17	1800.0	1.0	-1.0	-0.03125	-1.0	-1.0
18	1900.0	1.0	-1.0	-0.03125	-1.0	-1.0
19	2000.0	1.0	-1.0	-0.03125	-1.0	-1.0
20	2100.0	1.0	-1.0	-0.03125	-1.0	-1.0
21	2200.0	1.0	-1.0	-0.03125	-1.0	-1.0
22	2300.0	1.0	-1.0	-0.03125	-1.0	-1.0
23	2400.0	1.0	-1.0	-0.03125	-1.0	-1.0

24	2500.0	1.0	-1.0	-0.03125	-1.0	-1.0
25	2600.0	1.0	-1.0	-0.03125	-1.0	-1.0
26	2700.0	1.0	-1.0	-0.03125	-1.0	-1.0
27	2800.0	1.0	-1.0	-0.03125	-1.0	-1.0
28	2900.0	1.0	-1.0	-0.03125	-1.0	-1.0
29	3000.0	1.0	-1.0	-0.03125	-1.0	-1.0
30	3100.0	1.0	-1.0	-0.03125	-1.0	-1.0
31	3200.0	1.0	-1.0	-0.03125	-1.0	-1.0
32	3300.0	1.0	-1.0	-0.03125	-1.0	-1.0
33	3400.0	1.0	-1.0	-0.03125	-1.0	-1.0
34	3500.0	1.0	-1.0	-0.03125	-1.0	-1.0
35	3600.0	1.0	-1.0	-0.03125	-1.0	-1.0
36	3700.0	1.0	-1.0	-0.03125	-1.0	-1.0
37	3800.0	1.0	-1.0	-0.03125	-1.0	-1.0
38	3900.0	1.0	-1.0	-0.03125	-1.0	-1.0
39	4000.0	1.0	-1.0	-0.03125	-1.0	-1.0
40	4100.0	1.0	-1.0	-0.03125	-1.0	-1.0
41	4200.0	1.0	-1.0	-0.03125	-1.0	-1.0
42	4300.0	1.0	-1.0	-0.03125	-1.0	-1.0
43	4400.0	1.0	-1.0	-0.03125	-1.0	-1.0
44	4500.0	1.0	-1.0	-0.03125	-1.0	-1.0
45	4600.0	1.0	-1.0	-0.03125	-1.0	-1.0
46	4700.0	1.0	-1.0	-0.03125	-1.0	-1.0
47	4800.0	1.0	-1.0	-0.03125	-1.0	-1.0
48	4900.0	1.0	-1.0	-0.03125	-1.0	-1.0
49	5000.0	0.1	-1.0	-0.03125	-1.0	-1.0
50	5100.0	0.1	-1.0	-0.03125	-1.0	-1.0
51	5200.0	0.1	-1.0	-0.03125	-1.0	-1.0
52	5300.0	0.1	-1.0	-0.03125	-1.0	-1.0
53	5400.0	0.1	-1.0	-0.03125	-1.0	-1.0
54	5500.0	0.1	-1.0	-0.03125	-1.0	-1.0
55	5600.0	0.1	-1.0	-0.03125	-1.0	-1.0
56	5700.0	0.1	-1.0	-0.03125	-1.0	-1.0
57	5800.0	0.1	-1.0	-0.03125	-1.0	-1.0

58	5900.0	0.1	-1.0	-0.03125	-1.0	-1.0
59	6000.0	0.1	-1.0	-0.03125	-1.0	-1.0
60	6100.0	0.1	-1.0	-0.03125	-1.0	-1.0
61	6200.0	0.1	-1.0	-0.03125	-1.0	-1.0
62	6300.0	0.1	-1.0	-0.03125	-1.0	-1.0
63	6400.0	0.1	-1.0	-0.03125	-1.0	-1.0
64	6500.0	0.1	-1.0	-0.03125	-1.0	-1.0
65	6600.0	0.1	-1.0	-0.03125	-1.0	-1.0
66	6700.0	0.1	-1.0	-0.03125	-1.0	-1.0
67	6800.0	0.1	-1.0	-0.03125	-1.0	-1.0
68	6900.0	0.1	-1.0	-0.03125	-1.0	-1.0
69	7000.0	0.1	-1.0	-0.03125	-1.0	-1.0
70	7100.0	0.1	-1.0	-0.03125	-1.0	-1.0
71	7200.0	0.1	-1.0	-0.03125	-1.0	-1.0
72	7300.0	0.1	-1.0	-0.03125	-1.0	-1.0
73	7400.0	0.1	-1.0	-0.03125	-1.0	-1.0
74	7500.0	0.1	-1.0	-0.03125	-1.0	-1.0
75	7600.0	0.1	-1.0	-0.03125	-1.0	-1.0
76	7700.0	0.1	-1.0	-0.03125	-1.0	-1.0
77	7800.0	0.1	-1.0	-0.03125	-1.0	-1.0
78	7900.0	0.1	-1.0	-0.03125	-1.0	-1.0
79	8000.0	0.1	-1.0	-0.03125	-1.0	-1.0
80	8100.0	0.1	-1.0	-0.03125	-1.0	-1.0
81	8200.0	0.1	-1.0	-0.03125	-1.0	-1.0