

With size of output layer of $f() = 100$ & hidden layer of $g() = 100$

Iteration: 1000	Loss: 1.431961026233971	Accuracy: 0 %
Iteration: 2000	Loss: 1.4319543167155493	Accuracy: 0 %
Iteration: 3000	Loss: 1.4319641520601818	Accuracy: 0 %
Iteration: 4000	Loss: 1.4319510451235216	Accuracy: 0 %
Iteration: 5000	Loss: 1.4319475803086732	Accuracy: 0 %
Iteration: 6000	Loss: 1.431951137736468	Accuracy: 0 %
Iteration: 7000	Loss: 1.4319499526192174	Accuracy: 0 %
Iteration: 8000	Loss: 1.4319575399585074	Accuracy: 0 %
Iteration: 9000	Loss: 1.4319515628560606	Accuracy: 0 %
Iteration: 10000	Loss: 1.4319470462922868	Accuracy: 0 %
Iteration: 11000	Loss: 1.4319490805466804	Accuracy: 0 %
Iteration: 12000	Loss: 1.4319467140469335	Accuracy: 0 %
Iteration: 13000	Loss: 1.431957391237319	Accuracy: 0 %
Iteration: 14000	Loss: 1.431947769377725	Accuracy: 0 %
Iteration: 15000	Loss: 1.4319460215451951	Accuracy: 0 %
Iteration: 16000	Loss: 1.4319488374786264	Accuracy: 0 %
Iteration: 17000	Loss: 1.4319486833799169	Accuracy: 0 %
Iteration: 18000	Loss: 1.4319524576081253	Accuracy: 0 %
Iteration: 19000	Loss: 1.4319488685203519	Accuracy: 0 %
Iteration: 20000	Loss: 1.4319465289719615	Accuracy: 0 %
Iteration: 21000	Loss: 1.4319472237066324	Accuracy: 0 %
Iteration: 22000	Loss: 1.4319460301620128	Accuracy: 0 %
Iteration: 23000	Loss: 1.4319544996808207	Accuracy: 0 %
Iteration: 24000	Loss: 1.4319470415638111	Accuracy: 0 %
Iteration: 25000	Loss: 1.4319457685591248	Accuracy: 0 %
Iteration: 26000	Loss: 1.4319481949944466	Accuracy: 0 %
Iteration: 27000	Loss: 1.4319480132396563	Accuracy: 0 %
Iteration: 28000	Loss: 1.4319505004008102	Accuracy: 0 %
Iteration: 29000	Loss: 1.4319479097049301	Accuracy: 0 %
Iteration: 30000	Loss: 1.431946259417643	Accuracy: 0 %

With size of output layer of $f() = 300$ & hidden layer of $g() = 100$

Iteration: 1000	Loss: 1.431978069754628	Accuracy: 0 %
Iteration: 2000	Loss: 1.4319473664404205	Accuracy: 0 %
Iteration: 3000	Loss: 1.4319697917473466	Accuracy: 0 %
Iteration: 4000	Loss: 1.4319482256863372	Accuracy: 0 %
Iteration: 5000	Loss: 1.4319475561414852	Accuracy: 0 %
Iteration: 6000	Loss: 1.4319668528811933	Accuracy: 0 %
Iteration: 7000	Loss: 1.4319466963554046	Accuracy: 0 %
Iteration: 8000	Loss: 1.43195254404071	Accuracy: 0 %
Iteration: 9000	Loss: 1.4319496397541371	Accuracy: 0 %
Iteration: 10000	Loss: 1.4319494518061533	Accuracy: 0 %
Iteration: 11000	Loss: 1.431959425305838	Accuracy: 0 %
Iteration: 12000	Loss: 1.4319462073099751	Accuracy: 0 %
Iteration: 13000	Loss: 1.4319620156844313	Accuracy: 0 %
Iteration: 14000	Loss: 1.4319469160721405	Accuracy: 0 %
Iteration: 15000	Loss: 1.4319465849441197	Accuracy: 0 %
Iteration: 16000	Loss: 1.4319598918655423	Accuracy: 0 %
Iteration: 17000	Loss: 1.431945888663848	Accuracy: 0 %
Iteration: 18000	Loss: 1.431950766790811	Accuracy: 0 %
Iteration: 19000	Loss: 1.4319485301459656	Accuracy: 0 %
Iteration: 20000	Loss: 1.4319479633833254	Accuracy: 0 %
Iteration: 21000	Loss: 1.4319573544050976	Accuracy: 0 %
Iteration: 22000	Loss: 1.4319458858170824	Accuracy: 0 %
Iteration: 23000	Loss: 1.4319587174749797	Accuracy: 0 %
Iteration: 24000	Loss: 1.4319468700832143	Accuracy: 0 %
Iteration: 25000	Loss: 1.4319463837703539	Accuracy: 0 %
Iteration: 26000	Loss: 1.4319564305138022	Accuracy: 0 %
Iteration: 27000	Loss: 1.4319458075202625	Accuracy: 0 %
Iteration: 28000	Loss: 1.4319504236025349	Accuracy: 0 %

Iteration: 29000 Loss: 1.4319480890829082 Accuracy: 0 %
Iteration: 30000 Loss: 1.4319472350440814 Accuracy: 0 %

With size of output layer of $f() = 100$ & hidden layer of $g() = 50$

Iteration: 1000 Loss: 1.4319812237186984 Accuracy: 0 %
Iteration: 2000 Loss: 1.4319513639217816 Accuracy: 0 %
Iteration: 3000 Loss: 1.4319624807580402 Accuracy: 0 %
Iteration: 4000 Loss: 1.4319500210695926 Accuracy: 0 %
Iteration: 5000 Loss: 1.4319495215671256 Accuracy: 0 %
Iteration: 6000 Loss: 1.4319766452442666 Accuracy: 0 %
Iteration: 7000 Loss: 1.4319469408994618 Accuracy: 0 %
Iteration: 8000 Loss: 1.4319517879758121 Accuracy: 0 %
Iteration: 9000 Loss: 1.4319523633643239 Accuracy: 0 %
Iteration: 10000 Loss: 1.431946461242738 Accuracy: 0 %
Iteration: 11000 Loss: 1.4319636573264372 Accuracy: 0 %
Iteration: 12000 Loss: 1.4319476996169505 Accuracy: 0 %
Iteration: 13000 Loss: 1.4319508680209094 Accuracy: 0 %
Iteration: 14000 Loss: 1.4319476541332636 Accuracy: 0 %
Iteration: 15000 Loss: 1.4319473261337583 Accuracy: 0 %
Iteration: 16000 Loss: 1.4319640241670346 Accuracy: 0 %
Iteration: 17000 Loss: 1.431946304074819 Accuracy: 0 %
Iteration: 18000 Loss: 1.4319495326772596 Accuracy: 0 %
Iteration: 19000 Loss: 1.4319502774474646 Accuracy: 0 %
Iteration: 20000 Loss: 1.4319460339536698 Accuracy: 0 %
Iteration: 21000 Loss: 1.4319566940560713 Accuracy: 0 %
Iteration: 22000 Loss: 1.4319466704801966 Accuracy: 0 %
Iteration: 23000 Loss: 1.431948680602575 Accuracy: 0 %
Iteration: 24000 Loss: 1.431947100101399 Accuracy: 0 %
Iteration: 25000 Loss: 1.431946614178321 Accuracy: 0 %
Iteration: 26000 Loss: 1.4319591255144104 Accuracy: 0 %
Iteration: 27000 Loss: 1.4319460564607713 Accuracy: 0 %
Iteration: 28000 Loss: 1.431948680724773 Accuracy: 0 %
Iteration: 29000 Loss: 1.431949447785839 Accuracy: 0 %
Iteration: 30000 Loss: 1.4319459898374538 Accuracy: 0 %

With size of output layer of $f() = 300$ & hidden layer of $g() = 50$

Iteration: 1000 Loss: 1.4320118969724702 Accuracy: 0 %
Iteration: 2000 Loss: 1.4319488060493064 Accuracy: 0 %
Iteration: 3000 Loss: 1.4319589879641181 Accuracy: 0 %
Iteration: 4000 Loss: 1.4319557891285273 Accuracy: 0 %
Iteration: 5000 Loss: 1.431948986355994 Accuracy: 0 %
Iteration: 6000 Loss: 1.4319501577870215 Accuracy: 0 %
Iteration: 7000 Loss: 1.431948171916662 Accuracy: 0 %
Iteration: 8000 Loss: 1.4319643480522672 Accuracy: 0 %
Iteration: 9000 Loss: 1.431950770749234 Accuracy: 0 %
Iteration: 10000 Loss: 1.431946980644346 Accuracy: 0 %
Iteration: 11000 Loss: 1.4319697189575695 Accuracy: 0 %
Iteration: 12000 Loss: 1.4319464288354231 Accuracy: 0 %
Iteration: 13000 Loss: 1.431952458600646 Accuracy: 0 %
Iteration: 14000 Loss: 1.4319497491144164 Accuracy: 0 %
Iteration: 15000 Loss: 1.4319466679161192 Accuracy: 0 %
Iteration: 16000 Loss: 1.4319476705651906 Accuracy: 0 %
Iteration: 17000 Loss: 1.4319467541873798 Accuracy: 0 %
Iteration: 18000 Loss: 1.43195438343763 Accuracy: 0 %
Iteration: 19000 Loss: 1.4319492496717685 Accuracy: 0 %
Iteration: 20000 Loss: 1.4319465028962486 Accuracy: 0 %
Iteration: 21000 Loss: 1.431959362678202 Accuracy: 0 %
Iteration: 22000 Loss: 1.4319460912414586 Accuracy: 0 %
Iteration: 23000 Loss: 1.4319498567594249 Accuracy: 0 %
Iteration: 24000 Loss: 1.4319485201406625 Accuracy: 0 %

Iteration: 25000	Loss: 1.4319463030675248	Accuracy: 0 %
Iteration: 26000	Loss: 1.4319469842668338	Accuracy: 0 %
Iteration: 27000	Loss: 1.431946414429216	Accuracy: 0 %
Iteration: 28000	Loss: 1.43195125251541	Accuracy: 0 %
Iteration: 29000	Loss: 1.431948548419646	Accuracy: 0 %
Iteration: 30000	Loss: 1.4319462585016967	Accuracy: 0 %