CPSC 532W Homework 5

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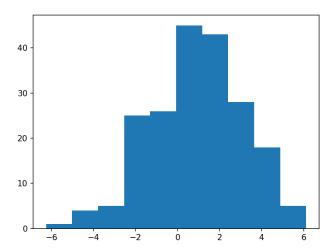
March 17, 2021

This is a placeholder submission. All the code can be found on: https://github.com/n6graham/cpsc532_hw5.

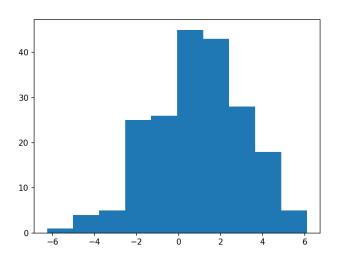
1 Program 1

(loc: 0.028813054785132408, scale: 0.910309910774231), 'sample73': Normal(loc: -0.1274077445268631, scale: 1.0196 211338043213), 'sample104': Normal(loc: 0.13367031514644623, scale: 1.000471591949463), 'sample9': Normal(loc: 0. 23851779103279114, scale: 0.863947868347168), 'sample121': Normal(loc: 0.12602509558200836, scale: 0.906989991664 8865), 'sample102': Normal(loc: -0.020959576591849327, scale: 1.05450439453125), 'sample55': Normal(loc: -0.24809 716641902924, scale: 0.8955751657485962), 'sample87': Normal(loc: -0.0016292359214276075, scale: 0.82132261991500 85), 'sample8': Normal(loc: 0.15166804194450378, scale: 0.9865884184837341), 'sample51': Normal(loc: 0.0281514767 5573826, scale: 0.897223174571991), 'sample72': Normal(loc: 0.28447407484054565, scale: 1.041612148284912), 'samp le39': Normal(loc: -0.23673585057258606, scale: 0.9712879657745361), 'sample7': Normal(loc: 0.2628374695777893, s cale: 0.8800844550132751), 'sample54': Normal(loc: -0.008857478387653828, scale: 0.9268837571144104), 'sample132': Normal(loc: 0.14971597492694855, scale: 0.993392825126648), 'sample101': Normal(loc: 0.34996819496154785, scale : 0.9475797414779663), 'sample61': Normal(loc: -0.03995126858353615, scale: 0.9674408435821533), 'sample115': Normal(loc: -0.12889261543750763, scale: 1.0636239051818848), 'sample17': Normal(loc: -0.14979583024978638, scale: 0 .9294111132621765), 'sample131': Normal(loc: 0.3166612386703491, scale: 1.0845746994018555), 'sample107': Normal(loc: 0.15554308891296387, scale: 1.019728422164917), 'sample109': Normal(loc: 0.09929069131612778, scale: 0.99443 23301315308), 'sample25': Normal(loc: -0.2017146348953247, scale: 1.004259467124939), 'sample98': Normal(loc: 0.1 3766495883464813, scale: 0.9975871443748474), 'sample23': Normal(loc: -0.3070654273033142, scale: 0.9894121289253 235), 'sample96': Normal(loc: 0.16982457041740417, scale: 0.9840357899665833), 'sample83': Normal(loc: 0.34165316 820144653, scale: 0.9283028841018677), 'sample28': Normal(loc: -0.28709498047828674, scale: 0.878452479839325), ' sample117': Normal(loc: 0.12659983336925507, scale: 1.0993764400482178), 'sample27': Normal(loc: -0.3718876242637 634, scale: 1.1278619766235352), 'sample88': Normal(loc: -0.3917408585548401, scale: 1.0515893697738647), 'sample 116': Normal(loc: 0.19242410361766815, scale: 1.1206859350204468), 'sample5': Normal(loc: 0.31046995520591736, sc ale: 0.896874725818634), 'sample52': Normal(loc: -0.09707590937614441, scale: 1.0181375741958618), 'sample64': No rmal(loc: 0.12425005435943604, scale: 1.166978120803833), 'sample46': Normal(loc: -0.05304451286792755, scale: 0.9874014258384705), 'sample129': Normal(loc: 0.02255052514374256, scale: 1.0709550380706787), 'sample57': Normal(l oc: 0.07677019387483597, scale: 0.9037127494812012), 'sample53': Normal(loc: 0.3087914288043976, scale: 1.0229363 441467285), 'sample12': Normal(loc: 0.1744071990251541, scale: 0.917870819568634), 'sample126': Normal(loc: -0.04 423068091273308, scale: 1.1834315061569214), 'sample93': Normal(loc: -0.03997012972831726, scale: 0.9611564278602 6), 'sample24': Normal(loc: 0.13767124712467194, scale: 1.0464117527008057), 'sample65': Normal(loc: 0.0882869437 3369217, scale: 0.9979518055915833), 'sample138': Normal(loc: -0.009301628917455673, scale: 0.9353760480880737), 'sample29': Normal(loc: 0.22290989756584167, scale: 1.03630530834198), 'sample34': Normal(loc: -0.182759553194046 02, scale: 0.9403443932533264), 'sample133': Normal(loc: 0.14275957643985748, scale: 1.0136116743087769), 'sample ': Normal(loc: -0.4713114798069, scale: 1.0176291465759277), 'sample86': Normal(loc: 0.1443261206150055, scale : 1.0197396278381348), 'sample136': Normal(loc: -0.03695037588477135, scale: 1.129204273223877), 'sample58': Normal(loc: 0.21542195975780487, scale: 0.9976047277450562), 'sample127': Normal(loc: 0.22007790207862854, scale: 0.9459568858146667), 'sample66': Normal(loc: -0.48271283507347107, scale: 1.0355836153030396), 'sample95': Normal(loc: -0.48271283507347107, scale: -0.48271 c: -0.29609158635139465, scale: 1.010400652885437), 'sample56': Normal(loc: 0.053470637649297714, scale: 0.973904 7288894653), 'sample92': Normal(loc: 0.16050845384597778, scale: 1.168870449066162), 'sample48': Normal(loc: -0.1424364298582077, scale: 1.1600818634033203), 'sample111': Normal(loc: -0.27430272102355957, scale: 1.166908144950 8667), 'sample10': Normal(loc: 0.4499799907207489, scale: 0.9570946097373962)} the max gradient is 35.292686

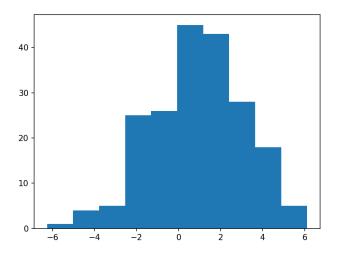
2 Program 2



3 Program 3



4 Program 4



5 Snippets of code

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content ...

content ...

content ...

content ...
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