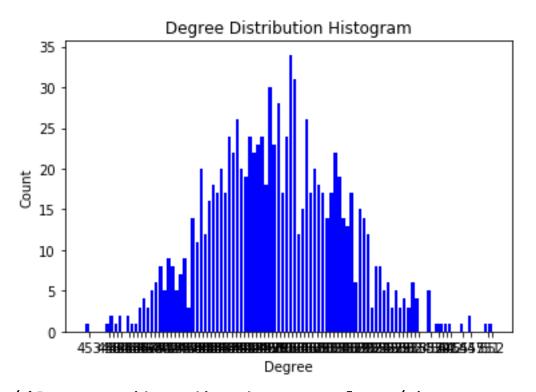
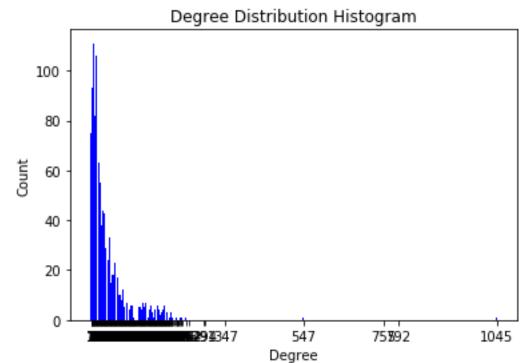
## Degree Distribution Analysis

## Analysis of a Random Network



('Degree distribution touples (degree, count):', [(512, 14), (513, 17), (514, 22), (515, 19), (516, 14), (517, 13), (518, 17), (519, 6), (520, 15), (521, 14), (522, 12), (523, 3), (524, 8), (525, 8), (526, 5), (527, 6), (528, 3), (529, 5), (530, 3), (531, 4), (532, 3), (533, 6), (534, 4), (537, 5), (539, 1), (540, 1), (541, 1), (542, 1), (545, 1), (547, 2), (551, 1), (552, 1), (453, 1), (458, 1), (459, 2), (460, 1), (461, 2), (463, 2), (464, 1), (465, 1), (466, 3), (467, 4), (468, 3), (469, 5), (470, 6), (471, 8), (472, 5), (473, 9), (474, 8), (475, 5), (476, 7), (477, 9), (478, 3), (479, 14), (480, 11), (481, 20), (482, 12), (483, 16), (484, 18), (485, 17), (486, 20), (487, 17), (488, 24), (489, 22), (490, 26), (491, 20), (492, 19), (493, 24), (494, 22), (495, 23), (496, 24), (497, 18), (498, 30), (499, 23), (500, 28), (501, 17), (502, 24), (503, 34), (504, 31), (505, 12), (506, 15), (507, 26), (508, 17), (509, 20), (510, 18), (511, 17)])

## Analysis of a Social network



```
('Degree distribution touples (degree, count):', [(1, 75), (2, 98), (3,
93), (4, 99), (5, 93), (6, 98), (7, 98), (8, 111), (9, 100), (10, 95),
(11, 81), (12, 82), (13, 79), (14, 87), (15, 106), (16, 82), (17, 76),
(18, 73), (19, 72), (20, 63), (1045, 1), (22, 63), (23, 53), (24, 60),
                          49),
                               (28, 37), (29, 38), (30, 40), (31, 38),
          (26,
               56),
                     (27,
                     (34, 43),
          (35, 36),
                               (547, 1), (36, 43), (37, 43),
(32, 44),
                          29),
               27),
                               (42, 21),
                                          (43, 29),
                     (41,
                                                          21),
(39, 29),
                                                     (44,
          (47,
               24),
                     (48, 24),
                               (49, 33),
                                         (50, 25),
                                                     (51, 20),
               23),
                     (55,
                          23),
                               (56,
                                     18),
                                          (57,
                                               23),
                                                     (58,
          (54,
                                                          15),
                          16), (63, 23), (64, 13), (65,
               18), (62,
     18),
          (61,
                                                          20),
               16), (69, 14), (70, 17), (71, 18), (72, 15), (73, 10),
     13), (68,
     10), (75, 8), (76, 15), (77, 10), (78, 11), (79, 16), (80, 8), (81,
4), (82, 12), (83, 17), (84, 12), (85, 10), (86, 9), (87, 5), (88, 9),
(89, 9), (90, 7), (91, 9), (92, 10), (93, 11), (94, 7), (95, 9), (96, 97)
11), (97, 8), (98, 5), (99, 11), (100, 10), (101, 4), (102, 9), (103, 6),
(104, 6), (105, 7), (106, 9), (107, 9), (108, 6), (109, 9), (110, 4),
(111, 1),
          (112, 7), (113, 8), (114, 4), (115, 10), (116, 6), (117, 9),
                           6),
                5),
                     (121,
                               (122, 12), (123, 11), (124, 9), (125, 5),
          (120,
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                           5),
(126, 6),
                    (128,
                               (129, 4), (130, 6), (131, 6), (132, 4),
          (127,
                           7),
                                      4), (137, 5),
                3),
                     (135,
                               (136,
                                                     (138, 2),
          (134,
                           7),
                                      1),
                                                3),
                7),
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          (141,
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(148, 3),
          (149,
                1),
                     (150, 2),
                               (151, 5), (152, 4),
                                                    (153, 2),
                           1),
                                     5),
                6),
                     (157,
                               (158,
                                          (159, 3),
          (156,
                                                     (160, 6),
          (163, 1),
                               (165, 5), (166, 4),
(162, 2),
                     (164, 4),
                                                     (167, 2),
                                                               (168,
                           3),
                                          (173, 6),
                3),
                     (171,
                               (172, 3),
          (170,
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                     (178, 5),
                               (179, 3),
                4),
                                          (180, 2),
          (177,
                                                     (181, 2),
      4),
                           4),
                3),
                                                4),
(183, 3),
                     (185,
                               (186,
                                      4),
                                          (187,
                                                     (188,
                                                           4),
          (184,
                     (192, 2),
                               (193, 3),
                4),
                                          (194, 1),
                                                           4),
          (191,
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(190,
      6),
                5),
                           2),
                                      1),
                     (199,
                               (200,
                                          (201,
                                                4),
      3),
          (198,
                                                     (202,
                                                           2).
                                                               (203.
                           3),
                4),
                     (207,
                               (209,
                                      1),
                                          (210,
                                                1),
                                                     (211,
          (205,
                1),
                     (222, 1),
          (221,
                               (223,
                                      1), (224, 1), (226,
                                                           1),
                               (755, 1), (245, 1), (254, 1),
                2),
                    (235, 1),
          (234,
(291, 1), (294, 1), (21, 52), (347, 1), (33, 35)])
```