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// Finding Prime Number
// A number is said to be a prime number if it is only having 1 and itself.
// Example:
// 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 187, 191, 193, 197, 199, 211, 223, 227, 229, 233, 239, 241, 251, 257, 263, 269, 271, 277, 281, 283, 293, 307, 311, 313, 317, 331, 337, 347, 349, 353, 359, 367, 373, 379, 383, 389, 397, 401, 409, 419, 421, 431, 433, 439, 443, 449, 457, 461, 463, 467, 473, 479, 487, 491, 499, 503, 509, 521, 523, 541, 547, 557, 563, 569, 571, 577, 587, 593, 599, 601, 607, 613, 617, 619, 631, 641, 643, 647, 653, 659, 661, 673, 677, 683, 689, 691, 697, 701, 709, 713, 719, 727, 733, 739, 743, 751, 757, 761, 769, 773, 787, 791, 797, 809, 811, 821, 823, 827, 829, 833, 839, 841, 853, 857, 859, 863, 869, 877, 881, 883, 887, 893, 899, 907, 911, 913, 919, 929, 937, 941, 947, 953, 967, 971, 973, 977, 983, 989, 991, 997, 1009, 1013, 1019, 1021, 1031, 1033, 1039, 1043, 1049, 1051, 1057, 1063, 1069, 1073, 1079, 1087, 1091, 1093, 1097, 1103, 1109, 1117, 1123, 1129, 1133, 1139, 1147, 1151, 1153, 1157, 1163, 1169, 1171, 1177, 1181, 1183, 1187, 1193, 1199, 1201, 1207, 1213, 1217, 1223, 1229, 1231, 1237, 1241, 1243, 1247, 1253, 1259, 1261, 1267, 1271, 1273, 1277, 1283, 1289, 1291, 1297, 1301, 1303, 1307, 1313, 1319, 1321, 1327, 1331, 1333, 1337, 1343, 1349, 1351, 1357, 1361, 1363, 1367, 1373, 1379, 1381, 1387, 1391, 1393, 1397, 1403, 1409, 1411, 1417, 1423, 1427, 1433, 1439, 1441, 1447, 1453, 1459, 1463, 1469, 1471, 1477, 1481, 1483, 1487, 1493, 1499, 1501, 1507, 1511, 1513, 1517, 1523, 1529, 1531, 1537, 1543, 1549, 1553, 1559, 1561, 1567, 1571, 1573, 1577, 1583, 1589, 1591, 1597, 1601, 1603, 1607, 1609, 1613, 1619, 1621, 1627, 1631, 1633, 1637, 1643, 1649, 1651, 1657, 1661, 1663, 1667, 1673, 1679, 1681, 1687, 1691, 1693, 1697, 1703, 1709, 1711, 1717, 1721, 1723, 1729, 1733, 1739, 1741, 1747, 1751, 1753, 1757, 1763, 1769, 1771, 1777, 1781, 1783, 1787, 1793, 1799, 1801, 1807, 1811, 1813, 1817, 1823, 1829, 1831, 1837, 1841, 1843, 1847, 1853, 1859, 1861, 1867, 1871, 1873, 1877, 1883, 1889, 1891, 1897, 1901, 1903, 1907, 1913, 1919, 1921, 1927, 1931, 1933, 1937, 1943, 1949, 1951, 1957, 1961, 1963, 1967, 1973, 1979, 1981, 1987, 1991, 1993, 1997, 2003, 2009, 2011, 2017, 2021, 2023, 2027, 2029, 2033, 2039, 2041, 2047, 2051, 2053, 2057, 2063, 2069, 2071, 2077, 2081, 2083, 2087, 2093, 2099, 2101, 2107, 2111, 2113, 2117, 2123, 2129, 2131, 2137, 2141, 2143, 2147, 2153, 2159, 2161, 2167, 2171, 2173, 2177, 2183, 2189, 2191, 2197, 2201, 2203, 2207, 2213, 2219, 2221, 2227, 2231, 2233, 2237, 2243, 2249, 2251, 2257, 2261, 2263, 2267, 2273, 2279, 2281, 2287, 2291, 2293, 2297, 2303, 2309, 2311, 2317, 2321, 2323, 2327, 2333, 2339, 2341, 2347, 2351, 2353, 2357, 2363, 2369, 2371, 2377, 2381, 2383, 2387, 2393, 2399, 2401, 2407, 2411, 2413, 2417, 2423, 2429, 2431, 2437, 2441, 2443, 2447, 2453, 2459, 2461, 2467, 2471, 2473, 2477, 2483, 2489, 2491, 2497, 2501, 2503, 2507, 2513, 2519, 2521, 2527, 2531, 2533, 2537, 2543, 2549, 2551, 2557, 2561, 2563, 2567, 2573, 2579, 2581, 2587, 2591, 2593, 2597, 2603, 2609, 2611, 2617, 2621, 2623, 2627, 2633, 2639, 2641, 2647, 2651, 2653, 2657, 2663, 2669, 2671, 2677, 2681, 2683, 2687, 2693, 2699, 2701, 2707, 2711, 2713, 2717, 2723, 2729, 2731, 2737, 2741, 2743, 2747, 2753, 2759, 2761, 2767, 2771, 2773, 2777, 2783, 2789, 2791, 2797, 2801, 2803, 2807, 2813, 2819, 2821, 2827, 2831, 2833, 2837, 2843, 2849, 2851, 2857, 2861, 2863, 2867, 2873, 2879, 2881, 2887, 2891, 2893, 2897, 2903, 2909, 2911, 2917, 2921, 2923, 2927, 2933, 2939, 2941, 2947, 2951, 2953, 2957, 2963, 2969, 2971, 2977, 2981, 2983, 2987, 2993, 2999, 3001, 3007, 3011, 3013, 3017, 3023, 3029, 3031, 3037, 3041, 3043, 3047, 3053, 3059, 3061, 3067, 3071, 3073, 3077, 3083, 3089, 3091, 3097, 3101, 3103, 3107, 3113, 3119, 3121, 3127, 3131, 3133, 3137, 3143, 3149, 3151, 3157, 3161, 3163, 3167, 3173, 3179, 3181, 3187, 3191, 3193, 3197, 3203, 3209, 3211, 3217, 3221, 3223, 3227, 3233, 3239, 3241, 3247, 3251, 3253, 3257, 3263, 3269, 3271, 3277, 3281, 3283, 3287, 3293, 3299, 3301, 3307, 3311, 3313, 3317, 3323, 3329, 3331, 3337, 3341, 3343, 3347, 3353, 3359, 3361, 3367, 3371, 3373, 3377, 3383, 3389, 3391, 3397, 3401, 3403, 3407, 3413, 3419, 3421, 3427, 3431, 3433, 3437, 3443, 3449, 3451, 3457, 3461, 3463, 3467, 3473, 3479, 3481, 3487, 3491, 3493, 3497, 3503, 3509, 3511, 3517, 3521, 3523, 3527, 3533, 3539, 3541, 3547, 3551, 3553, 3557, 3563, 3569, 3571, 3577, 3581, 3583, 3587, 3593, 3599, 3601, 3607, 3611, 3613, 3617, 3623, 3629, 3631, 3637, 3641, 3643, 3647, 3653, 3659, 3661, 3667, 3671, 3673, 3677, 3683, 3689, 3691, 3697, 3701, 3703, 3707, 3713, 3719, 3721, 3727, 3731, 3733, 3737, 3743, 3749, 3751, 3757, 3761, 3763, 3767, 3773, 3779, 3781, 3787, 3791, 3793, 3797, 3803, 3809, 3811, 3817, 3821, 3823, 3827, 3833, 3839, 3841, 3847, 3851, 3853, 3857, 3863, 3869, 3871, 3877, 3881, 3883, 3887, 3893, 3899, 3901, 3907, 3911, 3913, 3917, 3923, 3929, 3931, 3937, 3941, 3943, 3947, 3953, 3959, 3961, 3967, 3971, 3973, 3977, 3983, 3989, 3991, 3997, 4001, 4003, 4007, 4013, 4019, 4021, 4027, 4031, 4033, 4037, 4043, 4049, 4051, 4057, 4061, 4063, 4067, 4073, 4079, 4081, 4087, 4091, 4093, 4097, 4103, 4109, 4111, 4117, 4121, 4123, 4127, 4133, 4139, 4141, 4147, 4151, 4153, 4157, 4163, 4169, 4171, 4177, 4181, 4183, 4187, 4193, 4199, 4201, 4207, 4211, 4213, 4217, 4223, 4229, 4231, 4237, 4241, 4243, 4247, 4253, 4259, 4261, 4267, 4271, 4273, 4277, 4283, 4289, 4291, 4297, 4301, 4303, 4307, 4313, 4319, 4321, 4327, 4331, 4333, 4337, 4343, 4349, 4351, 4357, 4361, 4363, 4367, 4373, 4379, 4381, 4387, 4391, 4393, 4397, 4403, 4409, 4411, 4417, 4421, 4423, 4427, 4433, 4439, 4441, 4447, 4451, 4453, 4457, 4463, 4469, 4471, 4477, 4481, 4483, 4487, 4493, 4499, 4501, 4507, 4511, 4513, 4517, 4523, 4529, 4531, 4537, 4541, 4543, 4547, 4553, 4559, 4561, 4567, 4571, 4573, 4577, 4583, 4589, 4591, 4597, 4601, 4603, 4607, 4613, 4619, 4621, 4627, 4631, 4633, 4637, 4643, 4649, 4651, 4657, 4661, 4663, 4667, 4673, 4679, 4681, 4687, 4691, 4693, 4697, 4703, 4709, 4711, 4717, 4721, 4723, 4727, 4733, 4739, 4741, 4747, 4751, 4753, 4757, 4763, 4769, 4771, 4777, 4781, 4783, 4787, 4793, 4799, 4801, 4807, 4811, 4813, 4817, 4823, 4829, 4831, 4837, 4841, 4843, 4847, 4853, 4859, 4861, 4867, 4871, 4873, 4877, 4883, 4889, 4891, 4897, 4901, 4903, 4907, 4913, 4919, 4921, 4927, 4931, 4933, 4937, 4943, 4949, 4951, 4957, 4961, 4963, 4967, 4973, 4979, 4981, 4987, 4991, 4993, 4997, 5003, 5009, 5011, 5017, 5021, 5023, 5027, 5033, 5039, 5041, 5047, 5051, 5053, 5057, 5063, 5069, 5071, 5077, 5081, 5083, 5087, 5093, 5099, 5101, 5107, 5111, 5113, 5117, 5123, 5129, 5131, 5137, 5141, 5143, 5147, 5153, 5159, 5161, 5167, 5171, 5173, 5177, 5183, 5189, 5191, 5197, 5201, 5203, 5207, 5213, 5219, 5221, 5227, 5231, 5233, 5237, 5243, 5249, 5251, 5257, 5261, 5263, 5267, 5273, 5279, 5281, 5287, 5291, 5293, 5297, 5303, 5309, 5311, 5317, 5321, 5323, 5327, 5333, 5339, 5341, 5347, 5351, 5353, 5357, 5363, 5369, 5371, 5377, 5381, 5383, 5387, 5393, 5399, 5401, 5407, 5411, 5413, 5417, 5423, 5429, 5431, 5437, 5441, 5443, 5447, 5453, 5459, 5461, 5467, 5471, 5473, 5477, 5483, 5489, 5491, 5497, 5501, 5503, 5507, 5513, 5519, 5521, 5527, 5531, 5533, 5537, 5543, 5549, 5551, 5557, 5561, 5563, 5567, 5573, 5579, 5581, 5587, 5591, 5593, 5597, 5603, 5609, 5611, 5617, 5621, 5623, 5627, 5633, 5639, 5641, 5647, 5651, 5653, 5657, 5663, 5669, 5671, 5677, 5681, 5683, 5687, 5693, 5699, 5701, 5707, 5711, 5713, 5717, 5723, 5729, 5731, 5737, 5741, 5743, 5747, 5753, 5759, 5761, 5767, 5771, 5773, 5777, 5783, 5789, 5791, 5797, 5801, 5803, 5807, 5813, 5819, 5821, 5827, 5831, 5833, 5837, 5843, 5849, 5851, 5857, 5861, 5863, 5867, 5873, 5879, 5881, 5887, 5891, 5893, 5897, 5903, 5909, 5911, 5917, 5921, 5923, 5927, 5933, 5939, 5941, 5947, 5951, 5953, 5957, 5963, 5969, 5971, 5977, 5981, 5983, 5987, 5993, 5999, 6001, 6007, 6011, 6013, 6017, 6023, 6029, 6031, 6037, 6041, 6043, 6047, 6053, 6059, 6061, 6067, 6071, 6073, 6077, 6083, 6089, 6091, 6097, 6101, 6103, 6107, 6113, 6119, 6121, 6127, 6131, 6133, 6137, 6143, 6149, 6151, 6157, 6161, 6163, 6167, 6173, 6179, 6181, 6187, 6191, 6193, 6197, 6203, 6209, 6211, 6217, 6221, 6223, 6227, 6233, 6239, 6241, 6247, 6251, 6253, 6257, 6263, 6269, 6271, 6277, 6281, 6283, 6287, 6293, 6299, 6301, 6307, 6311, 6313, 6317, 6323, 6329, 6331, 6337, 6341, 6343, 6347, 6353, 6359, 6361, 6367, 6371, 6373, 6377, 6383, 6389, 6391, 6397, 6401, 6403, 6407, 6413, 6419, 6421, 6427, 6431, 6433, 6437, 6443, 6449, 6451, 6457, 6461, 6463, 6467, 6473, 6479, 6481, 6487, 6491, 6493, 6497, 6503, 6509, 6511, 6517, 6521, 6523, 6527, 6533, 6539, 6541, 6547, 6551, 6553, 6557, 6563, 6569, 6571, 6577, 6581, 6583, 6587, 6593, 6599, 6601, 6607, 6611, 6613, 6617, 6623, 6629, 6631, 6637, 6641, 6643, 6647, 6653, 6659, 6661, 6667, 6671, 6673, 6677, 6683, 6689, 6691, 6697, 6701, 6703, 6707, 6713, 6719, 6721, 6727, 6731, 6733, 6737, 6743, 6749, 6751, 6757, 6761, 6763, 6767, 6773, 6779, 6781, 6787, 6791, 6793, 6797, 6803, 6809, 6811, 6817, 6821, 6823, 6827, 6833, 6839, 6841, 6847, 6851, 6853, 6857, 6863, 6869, 6871, 6877, 6881, 6883, 6887, 6893, 6899, 6901, 6907, 6911, 6913, 6917, 6923, 6929, 6931, 6937, 6941, 6943, 6947, 6953, 6959, 6961, 6967, 6971, 6973, 6977, 6983, 6989, 6991, 6997, 7001, 7003, 7007, 7013, 7019, 7021, 7027, 7031, 7033, 7037, 7043, 7049, 7051, 7057, 7061, 7063, 7067, 7073, 7079, 7081, 7087, 7091, 7093, 7097, 7103, 7109, 7111, 7117, 7121, 7123, 7127, 7133, 7139, 7141, 7147, 7151, 7153, 7157, 7163, 7169, 7171, 7177, 7181, 7183, 7187, 7193, 7199, 7201, 7207, 7211, 7213, 7217, 7223, 7229, 7231, 7237, 7241, 7243, 7247, 7253, 7259, 7261, 7267, 7271, 7273, 7277, 7283, 7289, 7291, 7297, 7301, 7303, 7307, 7313, 7319, 7321, 7327, 7331, 7333, 7337, 7343, 7349, 7351, 7357, 7361, 7363, 7367, 7373, 7379, 7381, 7387, 7391, 7393, 7397, 7403, 7409, 7411, 7417, 7421, 7423, 7427, 7433, 7439, 7441, 7447, 7451, 7453, 7457, 7463, 7469, 7471, 7477, 7481, 7483, 7487, 7493, 7499, 7501, 7507, 7511, 7513, 7517, 7523, 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8949, 8951, 8957, 8961, 8963, 8967, 8973, 8979, 8981, 8987, 8991, 8993, 8997, 9001, 9003, 9007, 9013, 9019, 9021, 9027, 9031, 9033, 9037, 9043, 9049, 9051, 9057, 9061, 9063, 9067, 9073, 9079, 9081, 9087, 9091, 9093, 9097, 9103, 9109, 9111, 9117, 9121, 9123, 9127, 9133, 9139, 9141, 914
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