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2ECE-A

Experiment 7: NumPy
Program Screenshots

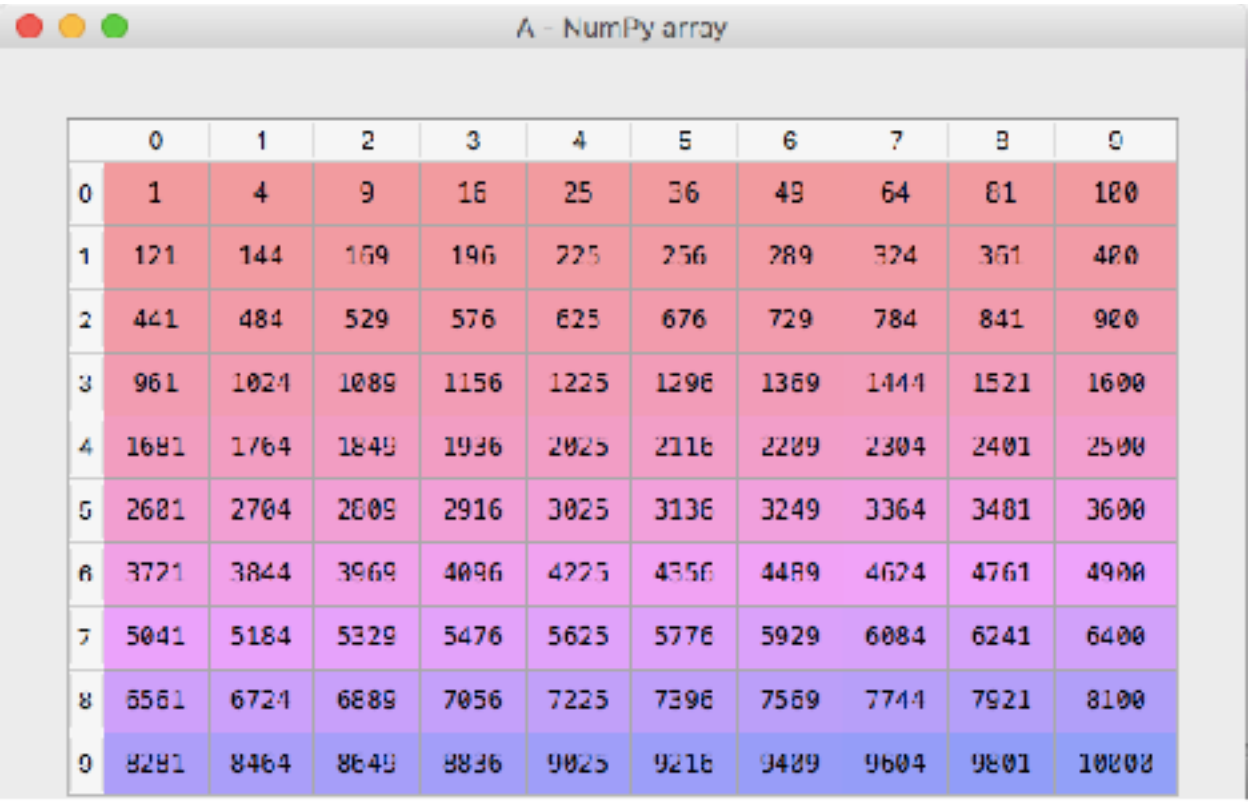
X_normalized Program:

	0	1	2	3	4
0	0.8624924	0.534187	0.922264	0.251507	0.00262811
1	0.8329622	0.996677	0.636961	0.136326	0.967062
2	0.720077	0.654418	0.00112971	0.218129	0.945843
3	0.787771	0.744642	0.448057	0.210585	0.871576
4	0.924448	0.943697	0.728929	0.642817	0.812705

	0	1	2	3	4
0	-1.49751	-0.106875	1.03732	-0.85187	-1.67411
1	-1.58467	1.25672	0.196142	-1.27992	1.1694
2	0.441197	0.247612	-1.67853	-1.03873	1.10684
3	0.640787	0.513626	-0.360817	-0.972524	0.896721
4	1.04376	1.18051	0.467297	0.713407	0.714302

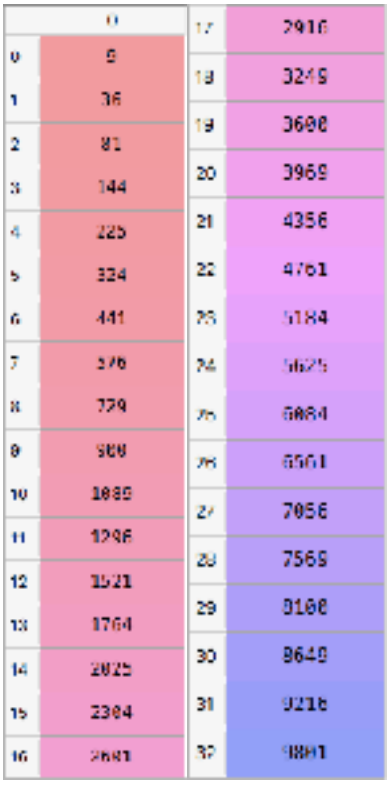
sDev	float64	1	0.33917006606860484
xBar	float64	1	0.5704356422507731

div_by_3 Program:



	0	1	2	3	4	5	6	7	8	9
0	1	4	9	16	25	36	49	64	81	100
1	121	144	169	196	225	256	289	324	361	400
2	441	484	529	576	625	676	729	784	841	900
3	961	1024	1089	1156	1225	1296	1369	1444	1521	1600
4	1681	1764	1849	1936	2025	2116	2209	2304	2401	2500
5	2601	2704	2809	2916	3025	3136	3249	3364	3481	3600
6	3721	3844	3969	4096	4225	4356	4489	4624	4761	4900
7	5041	5184	5329	5476	5625	5776	5929	6084	6241	6400
8	6561	6724	6889	7056	7225	7396	7569	7744	7921	8100
9	8281	8464	8649	8836	9025	9216	9409	9604	9801	10000

Elements from A that are divisible by 3:



	0
0	9
1	36
2	81
3	144
4	225
5	324
6	441
7	576
8	729
9	900
10	1089
11	1296
12	1521
13	1764
14	2025
15	2304
16	2601
17	2916
18	3249
19	3600
20	3969
21	4356
22	4761
23	5184
24	5625
25	6084
26	6561
27	7056
28	7569
29	8100
30	8649
31	9216
32	9801