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svd_power input1.txt 2 10

Matrix U:

Row 1: 0.5096 -0.3027
Row 2: 0.3423 0.5300
Row 3: 0.2466 0.2613
Row 4: 0.3953 -0.4016
Row 5: 0.1285 0.4181
Row 6: 0.5451 -0.2120
Row 7: 0.3041 0.4220

Matrix S:

Row 1: 2.9929 0.0000
Row 2: 0.0000 2.2147

Matrix V:

Row 1: 0.3411 0.7371
Row 2: 0.4846 -0.4131
Row 3: 0.1703 -0.1364
Row 4: 0.3024 -0.3175
Row 5: 0.0429 0.1888
Row 6: 0.5683 0.1983
Row 7: 0.1821 -0.0956
Row 8: 0.1143 0.2395
Row 9: 0.3966 -0.1587

Reconstruction ($U \cdot S \cdot V'$):

Row 1: 0.0261 1.0160 0.3511 0.6741 -0.0612 0.7338 0.3419 0.0138 0.7113
Row 2: 1.2148 0.0115 0.0144 -0.0629 0.2656 0.8150 0.0744 0.3983 0.2201
Row 3: 0.6784 0.1186 0.0468 0.0395 0.1410 0.5343 0.0791 0.2230 0.2009
Row 4: -0.2521 0.9407 0.3227 0.6402 -0.1172 0.4959 0.3005 -0.0778 0.6104
Row 5: 0.8137 -0.1961 -0.0608 -0.1777 0.1914 0.4022 -0.0184 0.2657 0.0056
Row 6: 0.2104 0.9844 0.3418 0.6424 -0.0187 0.8340 0.3420 0.0740 0.7216
Row 7: 0.9993 0.0549 0.0275 -0.0215 0.2155 0.7025 0.0765 0.3279 0.2127

svd_power input1.txt 4 100

Matrix U:

Row 1:	0.5098	-0.3014	-0.5931	0.3567
Row 2:	0.3420	0.5308	-0.2658	-0.1579
Row 3:	0.2465	0.2610	0.5642	0.1570
Row 4:	0.3955	-0.4015	0.3596	0.3928
Row 5:	0.1282	0.4180	0.1980	0.4751
Row 6:	0.5452	-0.2116	0.2513	-0.6618
Row 7:	0.3038	0.4226	-0.1662	-0.0723

Matrix S:

Row 1:	2.9929	0.0000	0.0000	0.0000
Row 2:	0.0000	2.2147	0.0000	0.0000
Row 3:	0.0000	0.0000	1.6335	0.0000
Row 4:	0.0000	0.0000	0.0000	1.3586

Matrix V:

Row 1:	0.3410	0.7371	0.2022	0.2958
Row 2:	0.4847	-0.4129	0.0109	0.0645
Row 3:	0.1703	-0.1361	-0.3631	0.2625
Row 4:	0.3025	-0.3174	-0.1430	0.5516
Row 5:	0.0428	0.1887	0.1212	0.3497
Row 6:	0.5683	0.1988	-0.4736	-0.3941
Row 7:	0.1822	-0.0955	0.1539	-0.4871
Row 8:	0.1143	0.2397	-0.1627	-0.1162
Row 9:	0.3967	-0.1590	0.7194	-0.0825

Reconstruction ($U \cdot S \cdot V'$):

Row 1:	-0.0244	1.0358	0.8297	1.0792	-0.0086	1.0022	-0.0434	0.1156	-0.0256
Row 2:	1.0642	-0.0079	0.1156	-0.1198	0.1381	1.1055	0.1118	0.4942	-0.0755
Row 3:	0.9271	0.1426	-0.2317	0.0256	0.3270	0.0135	0.1170	0.0481	0.8461
Row 4:	0.0248	0.9818	0.2495	0.8507	0.1407	0.0074	0.1310	-0.2354	0.9895
Row 5:	1.0695	-0.1511	-0.0086	0.1321	0.4561	-0.0054	-0.2832	0.1381	0.1845
Row 6:	0.0281	0.9308	-0.0434	0.0876	-0.2832	0.9940	0.8432	0.1118	1.0912
Row 7:	0.9159	0.0449	0.1002	-0.0374	0.1483	0.8700	0.0823	0.3838	0.0247