```
% Jonah Brooks, MATLAB tutorial
tut1 = [ 1 2 3 4 5; 5 4 3 2 1 ]
tut2 = [ 9 8 7 6 5; 5 6 7 8 9 ]
size (tut1)
size (tut2)
all = 1:1:100
evens = 2:2:1001
sum (all)
all*ones(1,numel(all))'
sum (evens)
evens*ones(1,numel(evens))'
tut1 .* tut2
x = -2*pi:0.1:2*pi
y = \sin(x).*\cos(x).^2
plot(x,y)
hold on
plot(x, cos(x), '--')
hold off
       tut1 =
                2
                                 5
                            4
            1
                      3
            5
                  4
                       3
                            2
                                   1
       tut2 =
            9
                  8
            5
                  6
       ans =
            2
                5
       ans =
           2
                5
       all =
```

C	olumns	1 t	hrough 1	13								
	1	2	3	4	5	6	7	8	9	10	11	12
C	olumns	14	through	26								
	14	15	16	17	18	19	20	21	22	23	24	25
C	olumns	27	through	39								
	27	28	29	30	31	32	33	34	35	36	37	38
C	olumns	40	through	52								
	40	41	42	43	44	45	46	47	48	49	50	51
C	olumns	53	through	65								
	53	54	55	56	57	58	59	60	61	62	63	64
C	olumns	66	through	78								
	66	67	68	69	70	71	72	73	74	75	76	77
C	olumns	79	through	91								
	79	80	81	82	83	84	85	86	87	88	89	90
C	olumns	92	through	100								
	92	93	94	95	96	97	98	99	100			
eve.	ns =											
C	olumns	1 t	hrough 6	5								
		2		4		6		8		10		12
C	olumns	7 t	through 1	12								
		14		16		18		20		22		24
C	olumns	13	through	18								
		26		28		30		32		34		36
C	olumns	19	through	24								
		38		40		42		44		46		48
C	olumns	25	through	30								
		50		52		54		56		58		60

Columns 31	through 36				
62	64	66	68	70	72
Columns 37	through 42				
74	76	78	80	82	84
Columns 43	through 48				
86	88	90	92	94	96
Columns 49	through 54				
98	100	102	104	106	108
Columns 55	through 60				
110	112	114	116	118	120
Columns 61	through 66				
122	124	126	128	130	132
Columns 67	through 72				
134	136	138	140	142	144
Columns 73	through 78				
146	148	150	152	154	156
Columns 79	through 84				
158	160	162	164	166	168
Columns 85	through 90				
170	172	174	176	178	180
Columns 91	through 96				
182	184	186	188	190	192
Columns 97	through 102				
194	196	198	200	202	204
Columns 103	3 through 108				
206	208	210	212	214	216
Columns 109	9 through 114				

Columns 115 through 120 230 232 234 236 Columns 121 through 126 242 244 246 Columns 127 through 132 254 256 258 260 Columns 133 through 138 266 268 270 272 Columns 139 through 144	226	228
Columns 121 through 126 242		
242 244 246 248 Columns 127 through 132 254 256 258 260 Columns 133 through 138 266 268 270 272 Columns 139 through 144	238	240
Columns 127 through 132 254 256 258 260 Columns 133 through 138 266 268 270 272 Columns 139 through 144		
254 256 258 260 Columns 133 through 138 266 268 270 272 Columns 139 through 144	250	252
Columns 133 through 138 266 268 270 272 Columns 139 through 144		
266 268 270 272 Columns 139 through 144	262	264
Columns 139 through 144		
	274	276
278 280 282 284	286	288
Columns 145 through 150		
290 292 294 296	298	300
Columns 151 through 156		
302 304 306 308	310	312
Columns 157 through 162		
314 316 318 320	322	324
Columns 163 through 168		
326 328 330 332	334	336
Columns 169 through 174		
338 340 342 344	346	348
Columns 175 through 180		
350	358	360
Columns 181 through 186		
362 364 366 368	370	372
Columns 187 through 192		
374 376 378 380		384

Columns 193	through 198				
386	388	390	392	394	396
Columns 199	through 204				
398	400	402	404	406	408
Columns 205	through 210				
410	412	414	416	418	420
Columns 211	through 216				
422	424	426	428	430	432
Columns 217	through 222				
434	436	438	440	442	444
Columns 223	through 228				
446	448	450	452	454	456
Columns 229	through 234				
458	460	462	464	466	468
Columns 235	through 240				
470	472	474	476	478	480
Columns 241	through 246				
482	484	486	488	490	492
Columns 247	through 252				
494	496	498	500	502	504
Columns 253	through 258				
506	508	510	512	514	516
Columns 259	through 264				
518	520	522	524	526	528
Columns 265	through 270				
530	532	534	536	538	540
Columns 271	through 276				

542	544	546	548	550	552
Columns 277	through 282				
554	556	558	560	562	564
Columns 283	through 288				
566	568	570	572	574	576
Columns 289	through 294				
578	580	582	584	586	588
Columns 295	through 300				
590	592	594	596	598	600
Columns 301	through 306				
602	604	606	608	610	612
Columns 307	through 312				
614	616	618	620	622	624
Columns 313	through 318				
626	628	630	632	634	636
Columns 319	through 324				
638	640	642	644	646	648
Columns 325	through 330				
650	652	654	656	658	660
Columns 331	through 336				
662	664	666	668	670	672
Columns 337	through 342				
674	676	678	680	682	684
Columns 343	through 348				
686	688	690	692	694	696
Columns 349	through 354				
698	700	702	704	706	708

Columns 355 t.	hrough 360				
710	712	714	716	718	720
Columns 361 t.	hrough 366				
722	724	726	728	730	732
Columns 367 t.	hrough 372				
734	736	738	740	742	744
Columns 373 t.	hrough 378				
746	748	750	7 <i>52</i>	754	756
Columns 379 t.	hrough 384				
758	760	762	764	766	768
Columns 385 t.	hrough 390				
770	772	774	776	778	780
Columns 391 t.	hrough 396				
782	784	786	788	790	792
Columns 397 t.	hrough 402				
794	796	798	800	802	804
Columns 403 t.	hrough 408				
806	808	810	812	814	816
Columns 409 t.	hrough 414				
818	820	822	824	826	828
Columns 415 t.	hrough 420				
830	832	834	836	838	840
Columns 421 t.	hrough 426				
842	844	846	848	850	852
Columns 427 t.	hrough 432				
854	856	858	860	862	864
Columns 433 t.	hrough 438				

866	868	870	87 <i>2</i>	874	876
Columns 439	through 444				
878	880	882	884	886	888
Columns 445	through 450				
890	892	894	896	898	900
Columns 451	through 456				
902	904	906	908	910	912
Columns 457	through 462				
914	916	918	920	922	924
Columns 463	through 468				
926	928	930	932	934	936
Columns 469	through 474				
938	940	942	944	946	948
Columns 475	through 480				
950	952	954	956	958	960
Columns 481	through 486				
962	964	966	968	970	972
	through 492				
974	976	978	980	982	984
	through 498				
986		990	992	994	996
	through 500				
998	1000				

ans =

5050

ans =

ans =

250500

ans =

250500

ans =

 9
 16
 21
 24
 25

 25
 24
 21
 16
 9

x =

Columns 1 through 7

-6.2832 -6.1832 -6.0832 -5.9832 -5.8832 -5.7832 -5.6832

Columns 8 through 14

-5.5832 -5.4832 -5.3832 -5.2832 -5.1832 -5.0832 -4.9832

Columns 15 through 21

-4.8832 -4.7832 -4.6832 -4.5832 -4.4832 -4.3832 -4.2832

Columns 22 through 28

-4.1832 -4.0832 -3.9832 -3.8832 -3.7832 -3.6832 -3.5832

Columns 29 through 35

-3.4832 -3.3832 -3.2832 -3.1832 -3.0832 -2.9832 -2.8832

Columns 36 through 42

-2.7832 -2.6832 -2.5832 -2.4832 -2.3832 -2.2832 -2.1832

Columns 43 through 49

-2.0832 -1.9832 -1.8832 -1.7832 -1.6832 -1.5832 -1.4832

Columns 50 through 56

-1.3832 -1.2832 -1.1832 -1.0832 -0.9832 -0.8832 -0.7832

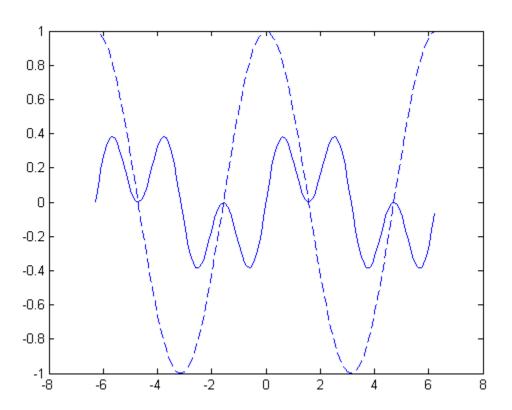
Columns 57	through 6	5 3							
-0.6832	-0.5832	-0.4832	-0.3832	-0.2832	-0.1832	-0.0832			
Columns 64	through 7	70							
0.0168	0.1168	0.2168	0.3168	0.4168	0.5168	0.6168			
Columns 71	through 7	77							
0.7168	0.8168	0.9168	1.0168	1.1168	1.2168	1.3168			
Columns 78	through 8	34							
1.4168	1.5168	1.6168	1.7168	1.8168	1.9168	2.0168			
Columns 85	through 9	91							
2.1168	2.2168	2.3168	2.4168	2.5168	2.6168	2.7168			
Columns 92	through 9	98							
2.8168	2.9168	3.0168	3.1168	3.2168	3.3168	3.4168			
Columns 99	through 1	105							
3.5168	3.6168	3.7168	3.8168	3.9168	4.0168	4.1168			
Columns 10	6 through	112							
4.2168	4.3168	4.4168	4.5168	4.6168	4.7168	4.8168			
Columns 11	3 through	119							
4.9168	5.0168	5.1168	5.2168	5.3168	5.4168	5.5168			
Columns 120	0 through	126							
5.6168	5.7168	5.8168	5.9168	6.0168	6.1168	6.2168			
V =									
y = Columns 1 through 7									
		0 1000	0.2697	0 2204	0 2602	0 2016			
Columns 8			0.2097	0.3304	0.3092	0.3040			
			0 2456	0 1024	0 1224	0.0000			
			0.2456	U.1834	0.1224	0.0689			
Columns 15									
0.0285	0.0050	0.0009	0.0165	0.0503	0.0989	0.1575			

Columns 22 t	through	28				
0.2200	0.2800	0.3310	0.3673	0.3841	0.3785	0.3493
Columns 29 t	through	35				
0.2974	0.2256	0.1383	0.0415	-0.0582	-0.1538	-0.2389
Columns 36 t	through	42				
-0.3076	-0.3559	-0.3811	-0.3828	-0.3624	-0.3233	-0.2704
Columns 43	through	49				
-0.2095	-0.1472	-0.0899	-0.0434	-0.0125	-0.0002	-0.0076
Columns 50	through	56				
-0.0342	-0.0772	-0.1323	-0.1939	-0.2558	-0.3113	-0.3543
Columns 57 t	through	63				
-0.3797	-0.3837	-0.3643	-0.3216	-0.2576	-0.1761	-0.0825
Columns 64 t	through	70				
0.0168	0.1150	0.2052	0.2813	0.3385	0.3735	0.3849
Columns 71 t	through	77				
0.3734	0.3416	0.2937	0.2354	0.1728	0.1127	0.0611
Columns 78 t	through	84				
0.0232	0.0029	0.0021	0.0209	0.0575	0.1082	0.1679
Columns 85 t	through	91				
0.2305	0.2894	0.3383	0.3716	0.3848	0.3753	0.3421
Columns 92 t	through	98				
0.2866	0.2118	0.1225	0.0248	-0.0747	-0.1690	-0.2517
Columns 99 t	through	105				
-0.3173	-0.3618	-0.3830	-0.3808	-0.3571	-0.3153	-0.2605
Columns 106	through	112				
-0.1989	-0.1370	-0.0812	-0.0370	-0.0091	-0.0000	-0.0108
Columns 113	through	119				

-0.0404 -0.0857 -0.1423 -0.2045 -0.2657 -0.3196 -0.3600

Columns 120 through 126

-0.3820 -0.3821 -0.3587 -0.3123 -0.2450 -0.1611 -0.0660



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