

```
>> hw2_Q3
```

```
My random matrix of rank equal to 3 is:
```

0.7595	0.5430	0.6031	0.5085	0.6016
0.5534	0.6484	-0.0604	0.5779	0.7058
0.5506	0.5050	0.9045	0.4355	0.3462
0.6921	1.0408	0.3689	0.8792	0.8543
0.6613	0.7026	0.3235	0.6222	0.6906
0.2914	0.9128	0.9982	0.6959	0.3235
0.9525	0.4616	0.4291	0.4849	0.7523
0.9382	0.1784	0.2838	0.2754	0.6558
0.7007	0.2988	0.1034	0.3337	0.5988
0.2895	0.3436	0.5721	0.2841	0.1888
0.5072	0.4303	0.2802	0.3947	0.4700
0.0280	0.8879	0.1218	0.6660	0.3919
0.4890	0.4214	0.5840	0.3742	0.3613
0.6508	0.4714	0.2721	0.4491	0.5923
0.7691	0.7575	0.3191	0.6810	0.7930
0.3968	0.2945	0.7203	0.2593	0.1968
0.8059	0.7215	0.8254	0.6419	0.6492
0.8566	0.9692	0.3624	0.8524	0.9389
0.2138	0.8953	0.9001	0.6738	0.2906
0.2221	0.3286	0.9162	0.2496	0.0305

```
Rank of this matrix is:
```

```
3
```

```
Rank of B2 matrix is:
```

```
5
```

```
Rank of B3 matrix is:
```

```
5
```

```
Rank of B4 matrix is:
```

```
5
```

```
Rank of B5 matrix is:
```

```
5
```

```
B2f =
```

0.7754	0.5497	0.5945	0.5153	0.5765
0.5543	0.6504	-0.0608	0.5756	0.7050
0.4395	0.4608	0.9648	0.3840	0.1754
0.7009	1.0458	0.3643	0.8809	0.8409
0.6703	0.7072	0.3187	0.6248	0.6767
0.3094	0.9195	0.9883	0.7050	0.2948
0.9670	0.4682	0.4212	0.4904	0.7296
0.9510	0.1842	0.2769	0.2803	0.6358
0.7075	0.3025	0.0998	0.3353	0.5885
0.3016	0.3481	0.5655	0.2903	0.1695
0.5152	0.4341	0.2759	0.3975	0.4576
0.0270	0.8886	0.1224	0.6638	0.3939
0.5028	0.4268	0.5765	0.3807	0.3395
0.6597	0.4758	0.2673	0.4519	0.5785
0.7787	0.7626	0.3140	0.6835	0.7782
0.4129	0.3002	0.7115	0.2677	0.1711
0.7156	0.6751	0.0482	0.6164	0.7879
0.8670	0.9750	0.3569	0.8547	0.9231

0.2294	0.9011	0.8917	0.6815	0.2659
0.2403	0.3347	0.9062	0.2599	0.0012

B3f =

0.5793	0.4299	0.7202	0.3940	0.3374
0.5455	0.6438	-0.0552	0.5722	0.7207
0.5659	0.5116	0.8942	0.4501	0.3163
0.6801	1.0305	0.3764	0.8761	0.8755
0.6620	0.7022	0.3229	0.6241	0.6888
0.2806	0.8984	1.0044	0.7014	0.3407
0.9769	0.4790	0.4135	0.4969	0.7076
0.9717	0.2038	0.2624	0.2897	0.5947
0.7167	0.3116	0.0933	0.3394	0.5701
0.2959	0.3452	0.5677	0.2921	0.1759
0.5131	0.4338	0.2764	0.3987	0.4589
-0.0074	0.8602	0.1442	0.6524	0.4559
0.1026	0.5137	0.5202	0.3941	0.1803
0.6603	0.4781	0.2660	0.4540	0.5748
0.7715	0.7587	0.3175	0.6832	0.7882
0.4121	0.3020	0.7102	0.2723	0.1673
0.8203	0.7284	0.8158	0.6545	0.6214
0.8540	0.9664	0.3640	0.8527	0.9433
0.0253	0.9165	0.8842	0.6813	0.2453
0.2325	0.3308	0.9089	0.2633	0.0091

B4f =

0.7768	0.3332	0.6135	0.2908	0.5376
0.5583	0.6440	-0.0617	0.5874	0.6977
0.5419	0.5289	0.9056	0.3973	0.3633
0.6983	1.0414	0.3668	0.8830	0.8452
0.6613	0.7093	0.3230	0.6134	0.6918
0.2950	0.9237	0.9961	0.6842	0.3203
0.9411	0.4833	0.4313	0.4477	0.7730
0.9225	0.2027	0.2872	0.2316	0.6831
0.6938	0.3102	0.1049	0.3134	0.6111
0.2856	0.3569	0.5724	0.2636	0.1970
0.5243	0.2605	0.2875	0.2377	0.4136
0.0453	0.8709	0.1172	0.7016	0.3635
0.4832	0.4376	0.5848	0.3484	0.3728
0.7104	0.2076	0.2357	0.2189	0.5434
0.7318	0.7402	0.0140	0.6760	0.8442
0.3883	0.3151	0.7216	0.2256	0.2130
0.7983	0.7440	0.8262	0.6064	0.6645
0.8586	0.9751	0.3613	0.8461	0.9372
0.2195	0.9024	0.8977	0.6686	0.2836
0.2152	0.3496	0.9169	0.2167	0.0444

B5f =

0.6736	0.5447	0.5805	0.6075	0.6177
0.6635	0.6463	0.0259	0.4603	0.6788
0.4637	0.5067	0.8812	0.5365	0.3618
0.8496	-0.0031	0.4107	0.6969	0.8252
0.7072	0.7017	0.3362	0.5675	0.6832

0.4248	0.9102	1.0337	0.5410	0.2992
0.8059	0.4644	0.3904	0.6538	0.7798
0.7036	0.0046	0.2214	0.5473	0.6988
0.6080	0.3006	0.0791	0.4402	0.6166
0.2606	0.3442	0.5643	0.3178	0.1940
0.4947	0.4305	0.2772	0.4084	0.4729
0.3481	-0.0062	0.2068	0.2952	0.3331
0.4334	0.4225	0.5692	0.4386	0.3715
0.6156	0.4721	0.2631	0.4888	0.5994
0.8072	0.7567	0.3299	0.6350	0.7872
0.2966	0.2964	0.6935	0.3761	0.2147
0.7450	0.7226	0.8094	0.7119	0.6607
0.9478	0.9674	0.3875	0.7444	0.9238
0.3703	-0.0030	0.9411	0.4943	0.2606
0.1554	0.3299	0.8981	0.3279	0.0419

var2 =

1.7120e-04

var3 =

1.7426e-05

var4 =

8.5757e-06

var5 =

0.0025

>>