

Mathematikaufgaben

> Daten, Statistik

> Kombinatorik

Aufgabe: In einem Mathematik-Lehrbuch für Realschüler sind innerhalb eines Arbeitsauftrages sieben Teilaufgaben zu quadratischen Gleichungen zu finden, daneben sieben aufgedruckte Kärtchen, die die jeweilige Lösung einer der sieben quadratischen Gleichungen wiedergeben. Auf den Kärtchen befinden sich zudem die Buchstaben A, B, G, H, M, R, U in alphabetischer Anordnung. Die Reihenfolge der Lösungen der sieben Teilaufgaben bestimmt somit die Reihenfolge der Buchstaben, die den Namen einer bekannten Stadt anzeigen. Ein*e Schüler*in überlegt nun, die quadratischen Gleichungen nicht zu lösen und stattdessen die Buchstaben in die richtige Reihenfolge zu bringen. Aber ist diese Vorgehensweise bei sieben Buchstaben wirklich sinnvoll?

Lösung: I. Zur mathematischen Kombinatorik gehören die Permutationen ohne Wiederholung als Anordnung von n (hier: verschiedenen) Elementen, n als natürliche Zahl, in bestimmter Reihenfolge. Die Anzahl solcher Permutationen beträgt $n!$ (n Fakultät) mit:

$$n! = 1 \cdot 2 \cdot \dots \cdot n$$

als Produkt der ersten n natürlichen Zahlen. (Weiter ist: $0! = 1$.)

II. Die sieben verschiedenen Buchstaben A, B, G, H, M, R, U lassen sich auf $7! = 1 \cdot 2 \cdot 3 \cdot 4 \cdot 5 \cdot 6 \cdot 7 = 5040$ Arten anordnen. Die nachstehende Tabelle zeigt alle Anordnungen:

Permutationen:

Nr.	Permutation
#1	ABGHMRU
#2	ABGHMUR
#3	ABGHUMR
#4	ABGUHMR
#5	ABUGHMR
#6	AUBGHRM
#7	UABGHRM
#8	ABGHRMU
#9	ABGHRUM
#10	ABGHURM
#11	ABGUHRM
#12	ABUGHRM
#13	AUBGHRM
#14	UABGHRM
#15	ABGRHMU
#16	ABGRHUM
#17	ABGRUHM
#18	ABGURHM
#19	ABUGRHM

#20	AUBGRHM
#21	UABGRHM
#22	ABRGHMU
#23	ABRGHUM
#24	ABRGUHM
#25	ABRUGHM
#26	ABURGHM
#27	AUBRGHM
#28	UABRGHM
#29	ARBGHMU
#30	ARBGHUM
#31	ARBGUHM
#32	ARBUGHM
#33	ARUBGHM
#34	AURBGHM
#35	UARBGHM
#36	RABGHMU
#37	RABGHUM
#38	RABGUHM
#39	RABUGHM
#40	RAUBGHM

#41	RUABGHM
#42	URABGHM
#43	ABGMHRU
#44	ABGMHUR
#45	ABGMUHR
#46	ABGUMHR
#47	ABUGMHR
#48	AUBGMHR
#49	UABGMHR
#50	ABGMRHU
#51	ABGMRUH
#52	ABGMURH
#53	ABGUMRH
#54	ABUGMRH
#55	AUBGMRH
#56	UABGMRH
#57	ABGRMHU
#58	ABGRMUH
#59	ABGRUMH
#60	ABGURMH
#61	ABUGRMH

#62	AUBGRMH
#63	UABGRMH
#64	ABRGMHU
#65	ABRGMUH
#66	ABRGUMH
#67	ABRUGMH
#68	ABURGMH
#69	AUBRGMH
#70	UABRGMH
#71	ARBGMHU
#72	ARBGMUH
#73	ARBGUMH
#74	ARBUGMH
#75	ARUBGMH
#76	AURBGMH
#77	UARBGMH
#78	RABGMHU
#79	RABGMUH
#80	RABGUMH
#81	RABUGMH
#82	RAUBGMH

#83	RUABGMH
#84	URABGMH
#85	ABMGHRU
#86	ABMGHUR
#87	ABMGUHR
#88	ABMUGHR
#89	ABUMGHR
#90	AUBMGHR
#91	UABMGHR
#92	ABMGRHU
#93	ABMGRUH
#94	ABMGURH
#95	ABMUGRH
#96	ABUMGRH
#97	AUBMGRH
#98	UABMGRH
#99	ABMRGHU
#100	ABMRGUH
#101	ABMRUGH
#102	ABMURGH
#103	ABUMRGH
#104	AUBMRGH
#105	UABMRGH
#106	ABRMGHU
#107	ABRMGUH
#108	ABRMUGH
#109	ABRUMGH
#110	ABURMGH
#111	AUBRMGH
#112	UABRMGH
#113	ARBMGHU
#114	ARBMGUH
#115	ARBMUGH
#116	ARBUMGH
#117	ARUBMGH
#118	AURBMGH
#119	UARBMGH
#120	RABMGHU
#121	RABMGUH
#122	RABMUGH
#123	RABUMGH
#124	RAUBMGH
#125	RUABMGH
#126	URABMGH
#127	AMBGHRU

#128	AMBGHUR
#129	AMBGUHR
#130	AMBUGHR
#131	AMUBGHR
#132	AUMBGRH
#133	UAMBGRH
#134	AMBGRHU
#135	AMBGRUH
#136	AMBGRUH
#137	AMBUGRH
#138	AMUBGRH
#139	AUMBGRH
#140	UAMBGRH
#141	AMBRGHU
#142	AMBRGUH
#143	AMBRUGH
#144	AMBURGH
#145	AMUBRGH
#146	AUMBRGH
#147	UAMBRGH
#148	AMRBGHU
#149	AMRBGUH
#150	AMRBUGH
#151	AMRUBGH
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#153	AUMRBGH
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#155	ARMBGHU
#156	ARMBGUH
#157	ARMBUGH
#158	ARMUBGH
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#161	UARMBGH
#162	RAMBGHU
#163	RAMBGUH
#164	RAMBUGH
#165	RAMUBGH
#166	RAUMBGH
#167	RUAMBGH
#168	URAMBGH
#169	MABGHRU
#170	MABGHUR
#171	MABGUHR
#172	MABUGHR

#173	MAUBGHR
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#175	UMABGHR
#176	MABGRHU
#177	MABGRUH
#178	MABGURH
#179	MABUGRH
#180	MAUBGRH
#181	MUABGRH
#182	UMABGRH
#183	MABRGHU
#184	MABRGUH
#185	MABRUGH
#186	MABURGH
#187	MAUBRGH
#188	MUABRGH
#189	UMABRGH
#190	MARBGHU
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#210	URMABGH
#211	ABHGMUR
#212	ABHGMUR
#213	ABHGUMR
#214	ABHUGMR
#215	ABUHGMUR
#216	AUBHGMR
#217	UABHGMR

#218	ABHGRMU
#219	ABHGRUM
#220	ABHGURM
#221	ABHUGRM
#222	ABUHGRM
#223	AUBHGRM
#224	UABHGRM
#225	ABHRGMU
#226	ABHRGUM
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#262	ABHMURG

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#396	MABURHG
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#441	UAHBGRM
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#470	AHBMRGU
#471	AHBMRUG
#472	AHBMURG
#473	AHBUMRG
#474	AHUBMRG
#475	AUHBMRG
#476	UAHBMRG
#477	AHBRMGU
#478	AHBRMUG
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#480	AHBURMG
#481	AHUBRMG
#482	AUHBRMG
#483	UAHBRMG
#484	AHRBMGU
#485	AHRBMUG
#486	AHRBUMG
#487	AHRUBMG

#488	AHURBMG
#489	AUHRBMG
#490	UAHRBMG
#491	ARHBMGU
#492	ARHBMUG
#493	ARHBUMG
#494	ARHUBMG
#495	ARUHBMG
#496	AURHBMG
#497	UARHBMG
#498	RAHBMGU
#499	RAHBMUG
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#517	AUHMBRG
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#525	UAHMRBG
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#527	AHRMBUG
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#533	ARHMBGU
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#539	UARHMBG
#540	RAHMBGU
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#543	RAHUMBG
#544	RAUHMBG
#545	RUAHMBG
#546	URAHMBG
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#548	AMHBGUR
#549	AMHBUGR
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#552	AUMHBGR
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#562	AMHRBUG
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#565	AMUHRBG
#566	AUMHRBG
#567	UAMHRBG
#568	AMRHBGU
#569	AMRHBUG
#570	AMRHUBG
#571	AMRUHBG
#572	AMURHBG
#573	AUMRHBG
#574	UAMRHBG
#575	ARMHBGU
#576	ARMHBUG
#577	ARMHUBG

#578	ARMUHBG
#579	ARUMHBG
#580	AURMHBG
#581	UARMHBG
#582	RAMHBGU
#583	RAMHBUG
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#589	MAHBGRU
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#591	MAHBUGR
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#598	MAHBURG
#599	MAHUBRG
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#602	UMAHBRG
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#604	MAHRBUG
#605	MAHRUBG
#606	MAHURBG
#607	MAUHRBG
#608	MUAHRBG
#609	UMAHBRG
#610	MARHBGU
#611	MARHBUG
#612	MARHUBG
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#615	MUARHBG
#616	UMARHBG
#617	MRAHBGU
#618	MRAHBUG
#619	MRAHUBG
#620	MRAUHBG
#621	MRUAHBG
#622	MURAHBG

#623	UMRAHBG
#624	RMAHBGU
#625	RMAHBUG
#626	RMAHUBG
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#628	RMUAHBG
#629	RUMAHBG
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#632	HABGMUR
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#634	HABUGMR
#635	HAUBGMR
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#660	HRABGUM
#661	HRABUGM
#662	HRAUBGM
#663	HRUABGM
#664	HURABGM
#665	UHRABGM
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#668	RHABUGM
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#671	RUHABGM
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#719	HAUMBGR
#720	HUAMBGR
#721	UHAMBGR
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#724	HAMBURG
#725	HAMUBRG
#726	HAUMBRG
#727	HUAMBRG
#728	UHAMBRG
#729	HAMRBGU
#730	HAMRBUG
#731	HAMRUBG
#732	HAMURBG
#733	HAUMRBG
#734	HUAMRBG
#735	UHAMRBG
#736	HARMBGU
#737	HARMBUG
#738	HARMUBG
#739	HARUMBG
#740	HAURMBG
#741	HUARMBG
#742	UHARMBG
#743	HRAMBGU
#744	HRAMBUG
#745	HRAMUBG
#746	HRAUMBG
#747	HRUAMBG
#748	HURAMBG
#749	UHRAMBG
#750	RHAMBGU
#751	RHAMBUG
#752	RHAMUBG
#753	RHAUMBG
#754	RHUAMBG
#755	RUHAMBGM
#756	URHAMBGM
#757	HMABGRU

#758	HMABGUR
#759	HMABUGR
#760	HMAUBGR
#761	HMUABGR
#762	HUMABGR
#763	UHMABGR
#764	HMABRGU
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#766	HMABURG
#767	HMAUBRG
#768	HMUABRG
#769	HUMABRG
#770	UHMABRG
#771	HMARBGU
#772	HMARBUG
#773	HMARUBG
#774	HMAURBG
#775	HMUARBGM
#776	HUMARBGM
#777	UHMARBG
#778	HMRABGU
#779	HMRABUG
#780	HMRAUBG
#781	HMRUABG
#782	HMURABG
#783	HUMRABG
#784	UHMRABG
#785	HRMABGU
#786	HRMABUG
#787	HRMAUBG
#788	HRMUABG
#789	HRUMABG
#790	HURMABG
#791	UHRMABG
#792	RHMABGU
#793	RHMABUG
#794	RHMAUBG
#795	RHMUABG
#796	RHUMABG
#797	RUHMABG
#798	URHMABG
#799	MHABGRU
#800	MHABGUR
#801	MHABUGR
#802	MHAUBGR

#803	MHUABGR
#804	MUHABGR
#805	UMHABGR
#806	MHABRGU
#807	MHABRUG
#808	MHABURG
#809	MHAUBRG
#810	MHUABRG
#811	MUHABRG
#812	UMHABRG
#813	MHARBGU
#814	MHARBUG
#815	MHARUBG
#816	MHAURBG
#817	MHUARBG
#818	MUHARBG
#819	UMHARBG
#820	MHRABGU
#821	MHRABUG
#822	MHRAUBG
#823	MHRUABG
#824	MHURABG
#825	MUHRABG
#826	UMHRABG
#827	MRHABGU
#828	MRHABUG
#829	MRHAUBG
#830	MRHUABG
#831	MRUHABG
#832	MURHABG
#833	UMRHABG
#834	RMHABGU
#835	RMHABUG
#836	RMHAUBG
#837	RMHUABG
#838	RMUHABG
#839	RUMHABG
#840	URMHABG
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#1165	ARGMUHB	#1210	AURMGHB	#1255	RMAGHUB	#1300	RAUHGBM
#1166	ARGUMHB	#1211	UARMGHB	#1256	RMAGUHB	#1301	RUAHGBM
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#1168	AURGMHB	#1213	RAMGHUB	#1258	RMUAGHB	#1303	AHGMBRU
#1169	UARGMHB	#1214	RAMGUHB	#1259	RUMAGHB	#1304	AHGMBUR
#1170	RAGMHBU	#1215	RAMUGHB	#1260	URMAGHB	#1305	AHG MUBR
#1171	RAGMHUB	#1216	RAUMGHB	#1261	AHG BMRU	#1306	AHGUMBR
#1172	RAGMUHB	#1217	RUAMGHB	#1262	AHG BMRU	#1307	AHUGMBR
#1173	RAGUMHB	#1218	URAMGHB	#1263	AHG BMRU	#1308	AUHGMBR
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#1176	URAGMHB	#1221	MAGHUBR	#1266	AUHGBMR	#1311	AHGMRUB
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#1178	AMGHBUR	#1223	MAUGHBR	#1268	AHG BMRU	#1313	AHG MURB
#1179	AMGHUBR	#1224	MUAGHBR	#1269	AHG BRUM	#1314	AHUGMRB
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#1181	AMUGHBR	#1226	MAGHRBU	#1271	AHGUBRM	#1316	UAHGMRB
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#1183	UAMGHBR	#1228	MAGHURB	#1273	AUHGBRM	#1318	AHG RMBU
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#1185	AMGHRUB	#1230	MAUGHRB	#1275	AHG RMBU	#1320	AHGURMB
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#1190	UAMGHRB	#1235	MAGRUB	#1280	AUHGRBM	#1325	AHRG MUB
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#1192	AMGRHUB	#1237	MAUGRHB	#1282	AHRG BMU	#1327	AHRUGMB
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#2060	MGAHBUR
#2061	MGAHUBR
#2062	MGAUHBR

#2063	M G U A H B R	#2108	G H A B R M U	#2153	G H A U M R B	#2198	U G H M A R B
#2064	M U G A H B R	#2109	G H A B R U M	#2154	G H U A M R B	#2199	G H M R A B U
#2065	U M G A H B R	#2110	G H A B U R M	#2155	G U H A M R B	#2200	G H M R A U B
#2066	M G A H R B U	#2111	G H A U B R M	#2156	U G H A M R B	#2201	G H M R U A B
#2067	M G A H R U B	#2112	G H U A B R M	#2157	G H A R M B U	#2202	G H M U R A B
#2068	M G A H U R B	#2113	G U H A B R M	#2158	G H A R M U B	#2203	G H U M R A B
#2069	M G A U H R B	#2114	U G H A B R M	#2159	G H A R U M B	#2204	G U H M R A B
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#2071	M U G A H R B	#2116	G H A R B U M	#2161	G H U A R M B	#2206	G H R M A B U
#2072	U M G A H R B	#2117	G H A R U B M	#2162	G U H A R M B	#2207	G H R M A U B
#2073	M G A R H B U	#2118	G H A U R B M	#2163	U G H A R M B	#2208	G H R M U A B
#2074	M G A R H U B	#2119	G H U A R B M	#2164	G H R A M B U	#2209	G H R U M A B
#2075	M G A R U H B	#2120	G U H A R B M	#2165	G H R A M U B	#2210	G H U R M A B
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#2077	M G U A R H B	#2122	G H R A B M U	#2167	G H R U A M B	#2212	U G H R M A B
#2078	M U G A R H B	#2123	G H R A B U M	#2168	G H U R A M B	#2213	G R H M A B U
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#2089	M R G A U H B	#2134	G U R H A B M	#2179	R G H A M U B	#2224	R G U H M A B
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#2091	M R U G A H B	#2136	R G H A B M U	#2181	R G H U A M B	#2226	U R G H M A B
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#2093	U M R G A H B	#2138	R G H A U B M	#2183	R U G H A M B	#2228	G M H A B U R
#2094	R M G A H B U	#2139	R G H U A B M	#2184	U R G H A M B	#2229	G M H A U B R
#2095	R M G A H U B	#2140	R G U H A B M	#2185	G H M A B R U	#2230	G M H U A B R
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#2099	R U M G A H B	#2144	G H A M B U R	#2189	G H U M A B R	#2234	G M H A R B U
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#2432	RHGMUAB	#2477	RUHMGAB	#2522	BAGHMUR	#2567	BAUGMHR
#2433	RHGUMAB	#2478	URHMGAB	#2523	BAGHUMR	#2568	BUAGMHR
#2434	RHUGMAB	#2479	MHGABRU	#2524	BAGUHMR	#2569	UBAGMHR
#2435	RUHGMAB	#2480	MHGABUR	#2525	BAUGHMR	#2570	BAGMRHU
#2436	URHGMAB	#2481	MHGAUBR	#2526	BUAGHMR	#2571	BAGMRUH
#2437	HMGABRU	#2482	MHGUABR	#2527	UBAGHMR	#2572	BAGMURH
#2438	HMGABUR	#2483	MHUGABR	#2528	BAGHRMU	#2573	BAGUMRH
#2439	HMGAUBR	#2484	MUHGABR	#2529	BAGHRUM	#2574	BAUGMRH
#2440	HMGUABR	#2485	UMHGABR	#2530	BAGHURM	#2575	BUAGMRH
#2441	HMUGABR	#2486	MHGARBU	#2531	BAGUHRM	#2576	UBAGMRH
#2442	HUMGABR	#2487	MHGARUB	#2532	BAUGHRM	#2577	BAGRMHU
#2443	UHMGABR	#2488	MHGAURB	#2533	BUAGHRM	#2578	BAGRMUH
#2444	HMGARBU	#2489	MHGUARB	#2534	UBAGHRM	#2579	BAGRUMH
#2445	HMGARUB	#2490	MHUGARB	#2535	BAGRHMU	#2580	BAGURMH
#2446	HMGAURB	#2491	MUHGARB	#2536	BAGRHUM	#2581	BAUGRMH
#2447	HMGUARB	#2492	UMHGARB	#2537	BAGRUHM	#2582	BUAGRMH
#2448	HMUGARB	#2493	MHGRABU	#2538	BAGURHM	#2583	UBAGRMH
#2449	HUMGARB	#2494	MHGRAUB	#2539	BAUGRHM	#2584	BARGMHU
#2450	UHMGARB	#2495	MHGRUAB	#2540	BUAGRHM	#2585	BARGMUH
#2451	HMGRABU	#2496	MHGURAB	#2541	UBAGRHM	#2586	BARGUMH
#2452	HMGRAUB	#2497	MHUGRAB	#2542	BARGHMU	#2587	BARUGMH
#2453	HMGRUAB	#2498	MUHGRAB	#2543	BARGHUM	#2588	BAURGMH
#2454	HMGURAB	#2499	UMHGRAB	#2544	BARGUHM	#2589	BUARGMH
#2455	HMUGRAB	#2500	MHRGABU	#2545	BARUGHM	#2590	UBARGMH
#2456	HUMGRAB	#2501	MHRGAUB	#2546	BAURGHM	#2591	BRAGMHU
#2457	UHMGRAB	#2502	MHRGUAB	#2547	BUARGHM	#2592	BRAGMUH
#2458	HMRGABU	#2503	MHRUGAB	#2548	UBARGHM	#2593	BRAGUMH
#2459	HMRGAUB	#2504	MHURGAB	#2549	BRAGHMU	#2594	BRAUGMH
#2460	HMRGUAB	#2505	MUHRGAB	#2550	BRAGHUM	#2595	BRUAGMH
#2461	HMRUGAB	#2506	UMHRGAB	#2551	BRAGUHM	#2596	BURAGMH
#2462	HMURGAB	#2507	MRHGABU	#2552	BRAUGHM	#2597	UBRAGMH
#2463	HUMRGAB	#2508	MRHGAUB	#2553	BRUAGHM	#2598	RBAGMHU
#2464	UHMRGAB	#2509	MRHGUAB	#2554	BURAGHM	#2599	RBAGMUH
#2465	HRMGABU	#2510	MRHUGAB	#2555	UBRAGHM	#2600	RBAGUMH
#2466	HRMGAUB	#2511	MRUHGAB	#2556	RBAGHMU	#2601	RBAUGMH
#2467	HRMGUAB	#2512	MURHGAB	#2557	RBAGHUM	#2602	RBUAGMH

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#2605	BAMGHRU
#2606	BAMGHUR
#2607	BAMGUHR
#2608	BAMUGHR
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#2611	UBAMGHR
#2612	BAMGRHU
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#2624	BUAMRGH
#2625	UBAMRGH
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#2627	BARMGUH
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#2634	BRAMGUH
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#2649	BMAGUHR
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#2652	BUMAGHR
#2653	UBMAGHR
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#2716	UMBRAGH
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#2723	UMRBAGH
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#2726	RMBAUGH
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#2732	BAHGMUR
#2733	BAHGUMR
#2734	BAHUGMR
#2735	BAUHGMR
#2736	BUAHGMR
#2737	UBAHGMR

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#2740	BAHGURM
#2741	BAHUGRM
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#2744	UBAHGRM
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#2746	BAHRGUM
#2747	BAHRUGM
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#2749	BAUHRGM
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#2751	UBAHRGM
#2752	BARHGMU
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#2776	BAHUMGR
#2777	BAUHMGR
#2778	BUAHMGR
#2779	UBAHMGR
#2780	BAHMRGU
#2781	BAHMRUG
#2782	BAHMURG

#2783	BAHUMRG	#2828	UBAMHRG	#2873	BMARUHG	#2918	MUBARHG
#2784	BAUHMRG	#2829	BAMRHGU	#2874	BMAURHG	#2919	UMBARHG
#2785	BUAHMRG	#2830	BAMRHUG	#2875	BMUARHG	#2920	MBRAHGU
#2786	UBAHMRG	#2831	BAMRUHG	#2876	BUMARHG	#2921	MBRAHUG
#2787	BAHRMGU	#2832	BAMURHG	#2877	UBMARHG	#2922	MBRAUHG
#2788	BAHRMUG	#2833	BAUMRHG	#2878	BMRAHGU	#2923	MBRUAHG
#2789	BAHRUMG	#2834	BUAMRHG	#2879	BMRAHUG	#2924	MBURAHG
#2790	BAHURMG	#2835	UBAMRHG	#2880	BMRAUHG	#2925	MUBRAHG
#2791	BAUHRMG	#2836	BARMHGU	#2881	BMRUAHG	#2926	UMBRAHG
#2792	BUAHRMG	#2837	BARMHUG	#2882	BMURAHG	#2927	MRBAHGU
#2793	UBAHRMG	#2838	BARMUHG	#2883	BUMRAHG	#2928	MRBAHUG
#2794	BARHMGU	#2839	BARUMHG	#2884	UBMRAHG	#2929	MRBAUHG
#2795	BARHMUG	#2840	BAURMHG	#2885	BRMAHGU	#2930	MRBUAHG
#2796	BARHUMG	#2841	BUARMHG	#2886	BRMAHUG	#2931	MRUBAHG
#2797	BARUHMG	#2842	UBARMHG	#2887	BRMAUHG	#2932	MURBAHG
#2798	BAURHMG	#2843	BRAMHGU	#2888	BRMUAHG	#2933	UMRBAHG
#2799	BUARHMG	#2844	BRAMHUG	#2889	BRUMAHG	#2934	RMBAHGU
#2800	UBARHMG	#2845	BRAMUHG	#2890	BURMAHG	#2935	RMBAHUG
#2801	BRAHMGU	#2846	BRAUMHG	#2891	UBRMAHG	#2936	RMBAUHG
#2802	BRAHMUG	#2847	BRUAMHG	#2892	RBMAHGU	#2937	RMBUAHG
#2803	BRAHUMG	#2848	BURAMHG	#2893	RBMAHUG	#2938	RMUBAHG
#2804	BRAUHMG	#2849	UBRAMHG	#2894	RBMAUHG	#2939	RUMBAGH
#2805	BRUAHMG	#2850	RBAMHGU	#2895	RBMUAHG	#2940	URMBAHG
#2806	BURAHMG	#2851	RBAMHUG	#2896	RBUMAHG	#2941	BHAGMRU
#2807	UBRAHMG	#2852	RBAMUHG	#2897	RUBMAHG	#2942	BHAGMUR
#2808	RB AHMGU	#2853	RBAUMHG	#2898	URBMAHG	#2943	BHAGUMR
#2809	RB AHMUG	#2854	RB UAMHG	#2899	MBAHG RU	#2944	BHAUGMR
#2810	RB AHUMG	#2855	RUBAMHG	#2900	MBAHGUR	#2945	BHUAGMR
#2811	RB AUHMG	#2856	URBAMHG	#2901	MBAHUGR	#2946	BUHAGMR
#2812	RB UAHMG	#2857	BMAHG RU	#2902	MBAUHGR	#2947	UBHAGMR
#2813	RUBAHMG	#2858	BMAHGUR	#2903	MBUAHGR	#2948	BHAGRMU
#2814	URBAHMG	#2859	BMAHUGR	#2904	MUBAHGR	#2949	BHAGRUM
#2815	BAMHG RU	#2860	BMAUHGR	#2905	UMBAHGR	#2950	BHAGURM
#2816	BAMHGUR	#2861	BMUAHGR	#2906	MBAHRGU	#2951	BHAUGRM
#2817	BAMHUGR	#2862	BUMAHGR	#2907	MBAHRUG	#2952	BHUAGRM
#2818	BAMUHGR	#2863	UBMAHGR	#2908	MBAHURG	#2953	BUHAGRM
#2819	BAUMHGR	#2864	BMAHRGU	#2909	MBAUHRG	#2954	UBHAGRM
#2820	BUAMHGR	#2865	BMAHRUG	#2910	MBUAHRG	#2955	BHARGMU
#2821	UBAMHGR	#2866	BMAHURG	#2911	MUBAHRG	#2956	BHARGUM
#2822	BAMHRGU	#2867	BMAUHRG	#2912	UMBAHRG	#2957	BHARUGM
#2823	BAMHRUG	#2868	BMUAHRG	#2913	MBARHGU	#2958	BHAURGM
#2824	BAMHURG	#2869	BUMAHRG	#2914	MBARHUG	#2959	BHUARGM
#2825	BAMUHRG	#2870	UBMAHRG	#2915	MBARUHG	#2960	BUHARGM
#2826	BAUMHRG	#2871	BMARHGU	#2916	MBAURHG	#2961	UBHARGM
#2827	BUAMHRG	#2872	BMARHUG	#2917	MBUARHG	#2962	BHRAGMU

#2963	BHRAGUM
#2964	BHRAUGM
#2965	BHRUAGM
#2966	BHURAGM
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#2985	BHAMUGR
#2986	BHAUMGR
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#3017	UBRHAMG
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#3055	BRHMUAG
#3056	BRHUMAG
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#3073	UBMHAGR
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#3076	BMHAURG
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#3214	HBRAMGU
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#3217	HBRUAMG
#3218	HBURAMG
#3219	HUBRAMG
#3220	UHBURAMG
#3221	HRBAMGU
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#3231	RHBUAMG
#3232	RHUBAMG

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#3236	HBMAGUR
#3237	HBMAUGR
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#3251	HBMRUAG
#3252	HBMURAG
#3253	HBUMRAG
#3254	HUBMRAG
#3255	UHBMRAG
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#3257	HBRMAUG
#3258	HBRMUAG
#3259	HBRUMAG
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#3261	HUBRMAG
#3262	UHRMAG
#3263	HRBMAGU
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#3266	HRBUMAG
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#3269	UHRBMAG
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#3279	HMBAUGR
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#3287	HMBUARG
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#3296	HUMBRAG
#3297	UHMBRAG
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#4878	HUGBMAR
#4879	UHGBMAR
#4880	HGBMRAU
#4881	HGBMRUA
#4882	HGBMURA
#4883	HGBUMRA
#4884	HGUBMRA
#4885	HUGBMRA
#4886	UHGBMRA
#4887	HGBRMAU
#4888	HGBRMUA
#4889	HGBRUMA
#4890	HGBURMA
#4891	HGUBRMA
#4892	HUGBRMA
#4893	UHGBRMA
#4894	HGRBMAU
#4895	HGRBMUA
#4896	HGRBUMA
#4897	HGRUBMA

#4898	HGURBMA
#4899	HUGRBMA
#4900	UHGRBMA
#4901	HRGBMAU
#4902	HRGBMUA
#4903	HRGBUMA
#4904	HRGUBMA
#4905	HRUGBMA
#4906	HURGBMA
#4907	UHRGBMA
#4908	RHGBMAU
#4909	RHGBMUA
#4910	RHGBUMA
#4911	RHGUBMA
#4912	RHUGBMA
#4913	RUHGBMA
#4914	URHGBMA
#4915	HGMBARU
#4916	HGMBAUR
#4917	HGMBUAR
#4918	HGMUBAR
#4919	HGUMBAR
#4920	HUGMBAR
#4921	UHGMBAR
#4922	HGMBRAU
#4923	HGMBRUA
#4924	HGMBURA
#4925	HGMUBRA
#4926	HGUMBRA
#4927	HUGMBRA
#4928	UHGMBRA
#4929	HGMRBAU
#4930	HGMRBUA
#4931	HGMRUBA
#4932	HGMURBA
#4933	HGUMRBA
#4934	HUGMRBA
#4935	UHGMRBA
#4936	HGRMBAU
#4937	HGRMBUA
#4938	HGRMUBA
#4939	HGRUMBA
#4940	HGURMBA
#4941	HUGRMBA
#4942	UHGRMBA

#4943	HRGMBAU	#4968	HMUGBRA	#4993	RHMGBUA	#5018	MUHGRBA
#4944	HRGMBUA	#4969	HUMGBRA	#4994	RHMGUBA	#5019	UMHGRBA
#4945	HRGMUBA	#4970	UHMGBRA	#4995	RHMUGBA	#5020	MHRGBAU
#4946	HRGUMBA	#4971	HMGRBAU	#4996	RHUMGBA	#5021	MHRGBUA
#4947	HRUGMBA	#4972	HMGRBUA	#4997	RUHMGBA	#5022	MHRGUBA
#4948	HURGMBA	#4973	HMGRUBA	#4998	URHMGBA	#5023	MHRUGBA
#4949	UHRGMBA	#4974	HMGURBA	#4999	MHG BARU	#5024	MHURGBA
#4950	RHGMBAU	#4975	HMUGRBA	#5000	MHG BAUR	#5025	MUHRGBA
#4951	RHGMBUA	#4976	HUMGRBA	#5001	MHG BUAR	#5026	UMHRGBA
#4952	RHGMUBA	#4977	UHMGRBA	#5002	MHG UBAR	#5027	MRHGBAU
#4953	RHGUMBA	#4978	HMRGBAU	#5003	MHUGBAR	#5028	MRHGBUA
#4954	RHUGMBA	#4979	HMRGBUA	#5004	MUHGBAR	#5029	MRHGUBA
#4955	RUHG MBA	#4980	HMRGUBA	#5005	UMHG BAR	#5030	MRHUGBA
#4956	URHG MBA	#4981	HMRUGBA	#5006	MHG BRAU	#5031	MRUHGBA
#4957	HMG BARU	#4982	HMURGBA	#5007	MHG BRUA	#5032	MURHGBA
#4958	HMG BAUR	#4983	HUMRGBA	#5008	MHG BURA	#5033	UMRHGBA
#4959	HMG BUAR	#4984	UHMRGBA	#5009	MHG UBRA	#5034	RMHGBAU
#4960	HMG UBAR	#4985	HRMGBAU	#5010	MHUGBRA	#5035	RMHGBUA
#4961	HMUGBAR	#4986	HRMGBUA	#5011	MUHGBRA	#5036	RMHGUBA
#4962	HUMGBAR	#4987	HRMGUBA	#5012	UMHGBRA	#5037	RMHUGBA
#4963	UHMGBAR	#4988	HRMUGBA	#5013	MHGRBAU	#5038	RMUHGBA
#4964	HMG BRAU	#4989	HRUMGBA	#5014	MHGRBUA	#5039	RUMHGBA
#4965	HMG BRUA	#4990	HURMGBA	#5015	MHGRUBA	#5040	URMHGBA
#4966	HMG BURA	#4991	UHRMGBA	#5016	MHGURBA		
#4967	HMGUBRA	#4992	RHMGBAU	#5017	MHUGRBA		

III. Wie aus der oben stehenden Tabelle erkennbar ist, wird es wohl einfacher sein, die geforderten sieben quadratischen Gleichungen zu lösen und dadurch das Lösungswort zu ermitteln, als 5040 Anordnungen zu erstellen und den Namen „HAMBURG“ (Tabellenposition #724) zu entdecken. Auch ist zu beachten, dass im Allgemeinen die Zuordnung der ersten drei oder vier Buchstaben ausreicht, um die restlichen Buchstaben passend zu ergänzen.