

An Example for the Computation of a Prime Divisor

In the following example a prime divisor of the number 10117 should be computed. Only the primes $< 49 = 7^2$ are known. The residues respectively the complements of the primes 2, 3, 5 and 7 at 49 will be computed. The complements are 1, 2, 1 and 7. The next prime number is 11 and its square is 121. The difference $121 - 49 = 72$ and therefore the filling aerea has 73 elements. The filling aerea will be empty, i.e. all elements are set to zero. With the prime number 2 the elements 2, 4, 6, . . . of the filling aerea are filled. The 3 has the Complement 2 and the elements 3, 6, 9, . . . are filled, the 5 has the Complement 1 and the elements 2, 7, 12, . . . are filled. Accordingly with the number 7 the elements 8, 15, 21, . . . are filled. After all these field-elements of the filling aerea are filled to complete the picture the first element with 7 and the last element with 11 are filled.

Now the analysis of the filling aerea can begin. All elements witch are not filled correspond the prime numbers in the aerea 49 until 121. In table 1 the prime numbers are inserted. They begin after the first asterisk (*) and end before the next *. The complements at 73 rsp. 121 are computed and with these are started in the following filling aerea. Table 1 corresponds in its arrange to the arrange of the table of primes in internet <http://primes.utm.edu/lists/small/millions/>. Only the "*" are not included there.

	1	2	3	4	5	6	7	8
1234567890123456789012345678901234567890123456789012345678901234567890								
	59	61	67	71	73	79	83	53
	97	101	103	107	109	113 *	127	89
	137	139	149	151	157	163	167 *	173
	179	181	191	193	197	199	211	223
	227	229	233	239	241	251	257	263
	269	271	277	281	283 *	293	307	311
	313	317	331	337	347	349	353	359
*	367	373	379	383	389	397	401	409
	419	421	431	433	439	443	449	457
	461	463	467	479	487	491	499	503
	509	521	523 *	541	547	557	563	569
	571	577	587	593	599	601	607	613
	617	619	631	641	643	647	653	659
	661	673	677	683	691	701	709	719
	727	733	739	743	751	757	761	769
	773	787	797	809	811	821	823	827
	829	839 *	853	857	859	863	877	881
	883	887	907	911	919	929	937	941
	947	953 *	967	971	977	983	991	997
	1009	1013	1019	1021	1031	1033	1039	1049
	1051	1061	1063	1069	1087	1091	1093	1097
	1103	1109	1117	1123	1129	1151	1153	1163
	1171	1181	1187	1193	1201	1213	1217	1223
	1229	1231	1237	1249	1259	1277	1279	1283
	1289	1291	1297	1301	1303	1307	1319	1321
	1327	1361	1367 *	1373	1381	1399	1409	1423
	1427	1429	1433	1439	1447	1451	1453	1459
	1471	1481	1483	1487	1489	1493	1499	1511
	1523	1531	1543	1549	1553	1559	1567	1571
	1579	1583	1597	1601	1607	1609	1613	1619
	1621	1627	1637	1657	1663	1667	1669 *	1693

1697	1699	1709	1721	1723	1733	1741	1747
1753	1759	1777	1783	1787	1789	1801	1811
1823	1831	1847 *	1861	1867	1871	1873	1877
1879	1889	1901	1907	1913	1931	1933	1949
1951	1973	1979	1987	1993	1997	1999	2003
2011	2017	2027	2029	2039	2053	2063	2069
2081	2083	2087	2089	2099	2111	2113	2129
2131	2137	2141	2143	2153	2161	2179	2203
2207 *	2213	2221	2237	2239	2243	2251	2267
2269	2273	2281	2287	2293	2297	2309	2311
2333	2339	2341	2347	2351	2357	2371	2377
2381	2383	2389	2393	2399	2411	2417	2423
2437	2441	2447	2459	2467	2473	2477	2503
2521	2531	2539	2543	2549	2551	2557	2579
2591	2593	2609	2617	2621	2633	2647	2657
2659	2663	2671	2677	2683	2687	2689	2693
2699	2707	2711	2713	2719	2729	2731	2741
2749	2753	2767	2777	2789	2791	2797	2801
2803 *	2819	2833	2837	2843	2851	2857	2861
2879	2887	2897	2903	2909	2917	2927	2939
2953	2957	2963	2969	2971	2999	3001	3011
3019	3023	3037	3041	3049	3061	3067	3079
3083	3089	3109	3119	3121	3137	3163	3167
3169	3181	3187	3191	3203	3209	3217	3221
3229	3251	3253	3257	3259	3271	3299	3301
3307	3313	3319	3323	3329	3331	3343	3347
3359	3361	3371	3373	3389	3391	3407	3413
3433	3449	3457	3461	3463	3467	3469 *	3491
3499	3511	3517	3527	3529	3533	3539	3541
3547	3557	3559	3571	3581	3583	3593	3607
3613	3617	3623	3631	3637	3643	3659	3671
3673	3677	3691	3697	3701	3709	3719 *	3727
3733	3739	3761	3767	3769	3779	3793	3797
3803	3821	3823	3833	3847	3851	3853	3863
3877	3881	3889	3907	3911	3917	3919	3923
3929	3931	3943	3947	3967	3989	4001	4003
4007	4013	4019	4021	4027	4049	4051	4057
4073	4079	4091	4093	4099	4111	4127	4129
4133	4139	4153	4157	4159	4177	4201	4211
4217	4219	4229	4231	4241	4243	4253	4259
4261	4271	4273	4283	4289	4297	4327	4337
4339	4349	4357	4363	4373	4391	4397	4409
4421	4423	4441	4447	4451	4457	4463	4481
4483 *	4493	4507	4513	4517	4519	4523	4547
4549	4561	4567	4583	4591	4597	4603	4621
4637	4639	4643	4649	4651	4657	4663	4673
4679	4691	4703	4721	4723	4729	4733	4751
4759	4783	4787	4789	4793	4799	4801	4813
4817	4831	4861	4871	4877	4889	4903	4909
4919	4931	4933	4937	4943	4951	4957	4967
4969	4973	4987	4993	4999	5003	5009	5011
5021	5023	5039 *	5051	5059	5077	5081	5087
5099	5101	5107	5113	5119	5147	5153	5167
5171	5179	5189	5197	5209	5227	5231	5233
5237	5261	5273	5279	5281	5297	5303	5309
5323 *	5333	5347	5351	5381	5387	5393	5399
5407	5413	5417	5419	5431	5437	5441	5443
5449	5471	5477	5479	5483	5501	5503	5507
5519	5521	5527	5531	5557	5563	5569	5573
5581	5591	5623	5639	5641	5647	5651	5653
5657	5659	5669	5683	5689	5693	5701	5711
5717	5737	5741	5743	5749	5779	5783	5791
5801	5807	5813	5821	5827	5839	5843	5849
5851	5857	5861	5867	5869	5879	5881	5897
5903	5923	5927	5939	5953	5981	5987	6007
6011	6029	6037	6043	6047	6053	6067	6073
6079	6089	6091	6101	6113	6121	6131	6133
6143	6151	6163	6173	6197	6199	6203	6211

6217	6221	6229 *	6247	6257	6263	6269	6271
6277	6287	6299	6301	6311	6317	6323	6329
6337	6343	6353	6359	6361	6367	6373	6379
6389	6397	6421	6427	6449	6451	6469	6473
6481	6491	6521	6529	6547	6551	6553	6563
6569	6571	6577	6581	6599	6607	6619	6637
6653	6659	6661	6673	6679	6689	6691	6701
6703	6709	6719	6733	6737	6761	6763	6779
6781	6791	6793	6803	6823	6827	6829	6833
6841	6857	6863	6869	6871	6883 *	6899	6907
6911	6917	6947	6949	6959	6961	6967	6971
6977	6983	6991	6997	7001	7013	7019	7027
7039	7043	7057	7069	7079	7103	7109	7121
7127	7129	7151	7159	7177	7187	7193	7207
7211	7213	7219	7229	7237	7243	7247	7253
7283	7297	7307	7309	7321	7331	7333	7349
7351	7369	7393	7411	7417	7433	7451	7457
7459	7477	7481	7487	7489	7499	7507	7517
7523	7529	7537	7541	7547	7549	7559	7561
7573	7577	7583	7589	7591	7603	7607	7621
7639	7643	7649	7669	7673	7681	7687	7691
7699	7703	7717	7723	7727	7741	7753	7757
7759	7789	7793	7817	7823	7829	7841	7853
7867	7873	7877	7879	7883	7901	7907	7919
* 7927	7933	7937	7949	7951	7963	7993	8009
8011	8017	8039	8053	8059	8069	8081	8087
8089	8093	8101	8111	8117	8123	8147	8161
8167	8171	8179	8191	8209	8219	8221	8231
8233	8237	8243	8263	8269	8273	8287	8291
8293	8297	8311	8317	8329	8353	8363	8369
8377	8387	8389	8419	8423	8429	8431	8443
8447	8461	8467	8501	8513	8521	8527	8537
8539	8543	8563	8573	8581	8597	8599	8609
8623	8627	8629	8641	8647	8663	8669	8677
8681	8689	8693	8699	8707	8713	8719	8731
8737	8741	8747	8753	8761	8779	8783	8803
8807	8819	8821	8831	8837	8839	8849	8861
8863	8867	8887	8893	8923	8929	8933	8941
8951	8963	8969	8971	8999	9001	9007	9011
9013	9029	9041	9043	9049	9059	9067	9091
9103	9109	9127	9133	9137	9151	9157	9161
9173	9181	9187	9199	9203	9209	9221	9227
9239	9241	9257	9277	9281	9283	9293	9311
9319	9323	9337	9341	9343	9349	9371	9377
9391	9397	9403 *	9413	9419	9421	9431	9433
9437	9439	9461	9463	9467	9473	9479	9491
9497	9511	9521	9533	9539	9547	9551	9587
9601	9613	9619	9623	9629	9631	9643	9649
9661	9677	9679	9689	9697	9719	9721	9733
9739	9743	9749	9767	9769	9781	9787	9791
9803	9811	9817	9829	9833	9839	9851	9857
9859	9871	9883	9887	9901	9907	9923	9929
9931	9941	9949	9967	9973	10007	10009	10037
10039	10061	10067	10069	10079	10091	10093	10099
10103	10111	10133	10139	10141	10151	10159	10163
10169	10177	10181	10193				

Table 1: Primes between prime-squares

In the next table 2 the complements of primes at prime-squares are listed. The square 121 is less than the number 10177, which should reduced to prime factors. Therefore the next filling aerea is computed. It is cleared and filled with prime numbers whereby is taken care that every prime number begins at complement +1. One proceeds in this method.

```

===== Complements at 49 =====
| Prime Complement | Prime Complement | Prime Complement | Prime Complement | Prime Complement |
|-----|-----|-----|-----|-----|
| 2 1 | 3 2 | 5 1 | 7 7 |
|-----|-----|-----|-----|

```

```

===== Complements at 121 =====
| Prime Complement | Prime Complement | Prime Complement | Prime Complement | Prime Complement |
|-----|-----|-----|-----|-----|
| 2 1 | 3 2 | 5 4 | 7 5 | 11 11 |
|-----|-----|-----|-----|

```

```

===== Complements at 169 =====
| Prime Complement | Prime Complement | Prime Complement | Prime Complement | Prime Complement |
|-----|-----|-----|-----|-----|
| 2 1 | 3 2 | 5 1 | 7 6 | 11 7 |
| 13 13 | | | | |
|-----|-----|-----|-----|

```

```

===== Complements at 289 =====
| Prime Complement | Prime Complement | Prime Complement | Prime Complement | Prime Complement |
|-----|-----|-----|-----|-----|
| 2 1 | 3 2 | 5 1 | 7 5 | 11 8 |
| 13 10 | 17 17 | | | |
|-----|-----|-----|-----|

```

```

===== Complements at 361 =====
| Prime Complement | Prime Complement | Prime Complement | Prime Complement | Prime Complement |
|-----|-----|-----|-----|-----|
| 2 1 | 3 2 | 5 4 | 7 3 | 11 2 |
| 13 3 | 17 13 | 19 19 | | |
|-----|-----|-----|-----|

```

```

===== Complements at 529 =====
| Prime Complement | Prime Complement | Prime Complement | Prime Complement | Prime Complement |
|-----|-----|-----|-----|-----|
| 2 1 | 3 2 | 5 1 | 7 3 | 11 10 |
| 13 4 | 17 15 | 19 3 | 23 23 | |
|-----|-----|-----|-----|

```

```

===== Complements at 841 =====
| Prime Complement | Prime Complement | Prime Complement | Prime Complement | Prime Complement |
|-----|-----|-----|-----|-----|
| 2 1 | 3 2 | 5 4 | 7 6 | 11 6 |
| 13 4 | 17 9 | 19 14 | 23 10 | 29 29 |
|-----|-----|-----|-----|

```

```

===== Complements at 961 =====
| Prime Complement | Prime Complement | Prime Complement | Prime Complement | Prime Complement |
|-----|-----|-----|-----|-----|
| 2 1 | 3 2 | 5 4 | 7 5 | 11 7 |
| 13 1 | 17 8 | 19 8 | 23 5 | 29 25 |
| 31 31 | | | | |
|-----|-----|-----|-----|

```

```

===== Complements at 1369 =====
| Prime Complement | Prime Complement | Prime Complement | Prime Complement | Prime Complement |
|-----|-----|-----|-----|-----|
| 2 1 | 3 2 | 5 1 | 7 3 | 11 6 |
| 13 9 | 17 8 | 19 18 | 23 11 | 29 23 |
| 31 26 | 37 37 | | | |
|-----|-----|-----|-----|

```

```

===== Complements at 1681 =====
| Prime Complement | Prime Complement | Prime Complement | Prime Complement | Prime Complement |
|-----|-----|-----|-----|-----|
| 2 1 | 3 2 | 5 4 | 7 6 | 11 2 |
| 13 9 | 17 2 | 19 10 | 23 21 | 29 1 |
|-----|-----|-----|-----|

```

31	24	37	21	41	41				
----	----	----	----	----	----	--	--	--	--

==== Complements at 1849 =====

Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement
2	1	3	2	5	1	7	6
13	10	17	4	19	13	23	14
31	11	37	1	41	37	43	43

==== Complements at 2209 =====

Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement
2	1	3	2	5	1	7	3
13	1	17	1	19	14	23	22
31	23	37	11	41	5	43	27

==== Complements at 2809 =====

Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement
2	1	3	2	5	1	7	5
13	12	17	13	19	3	23	20
31	12	37	3	41	20	43	29
53	53						

==== Complements at 3481 =====

Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement
2	1	3	2	5	4	7	5
13	3	17	4	19	15	23	15
31	22	37	34	41	4	43	2
53	17	59	59				

==== Complements at 3721 =====

Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement
2	1	3	2	5	4	7	3
13	10	17	2	19	3	23	5
31	30	37	16	41	10	43	20
53	42	59	55	61	61		

==== Complements at 4489 =====

Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement
2	1	3	2	5	1	7	5
13	9	17	16	19	14	23	19
31	6	37	25	41	21	43	26
53	16	59	54	61	25	67	67

==== Complements at 5041 =====

Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement
2	1	3	2	5	4	7	6
13	3	17	8	19	13	23	19
31	12	37	28	41	2	43	33
53	47	59	33	61	22	67	51

==== Complements at 5329 =====

Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement
2	1	3	2	5	1	7	5

13	1	17	9	19	10	23	7	29	7
31	3	37	36	41	1	43	3	47	29
53	24	59	40	61	39	67	31	71	67
73	73								

==== Complements at 6241 =====

Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement					
2	1	3	2	5	4	7	3	11	7
13	12	17	15	19	10	23	15	29	23
31	21	37	12	41	32	43	37	47	10
53	13	59	13	61	42	67	57	71	7
73	37	79	79						

==== Complements at 6889 =====

Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement					
2	1	3	2	5	1	7	6	11	8
13	1	17	13	19	8	23	11	29	13
31	24	37	30	41	40	43	34	47	20
53	1	59	14	61	4	67	12	71	69
73	46	79	63	83	83				

==== Complements at 7921 =====

Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement					
2	1	3	2	5	4	7	3	11	10
13	9	17	1	19	2	23	14	29	25
31	15	37	34	41	33	43	34	47	22
53	29	59	44	61	9	67	52	71	31
73	36	79	58	83	47	89	89		

==== Complements at 9409 =====

Prime Complement	Prime Complement	Prime Complement	Prime Complement	Prime Complement					
2	1	3	2	5	1	7	6	11	7
13	3	17	9	19	15	23	21	29	16
31	15	37	26	41	21	43	8	47	38
53	25	59	31	61	46	67	38	71	34
73	8	79	71	83	53	89	25	97	97

Table 2: Prime numbers and its complements at the prime-squares

Finally the aerea is reached in which $p_i^2 \leq 10117 < p_{i+1}^2$ is valid. Here the filling aerea is examined detailed. The result is described in table 3. Every element of the filling aerea corresponds to a number between p_i^2 and p_{i+1}^2 .

=== Odd Numbers from 9409 until 10201 and its smallest Prime Factors =====

Index Number	PFactor	Index Number	PFactor	Index Number	PFactor	Index Number	PFactor	Index Number	PFactor					
1	9409	97 F	3	9411	3 F	5	9413	0 P	7	9415	5	9	9417	3
11	9419	0 P	13	9421	0 P	15	9423	3 F	17	9425	5	19	9427	11 F
21	9429	3	23	9431	0 P	25	9433	0 P	27	9435	3	29	9437	0 P
31	9439	0 P	33	9441	3 F	35	9443	7	37	9445	5 F	39	9447	3
41	9449	11 F	43	9451	13 F	45	9453	3	47	9455	5	49	9457	7 F
51	9459	3 F	53	9461	0 P	55	9463	0 P	57	9465	3	59	9467	0 P
61	9469	17 F	63	9471	3	65	9473	0 P	67	9475	5 F	69	9477	3
71	9479	0 P	73	9481	19 F	75	9483	3	77	9485	5	79	9487	53 F

81	9489	3 F	83	9491	0 P	85	9493	11 F	87	9495	3	89	9497	0 P
91	9499	7	93	9501	3 F	95	9503	13	97	9505	5 F	99	9507	3 F
101	9509	37 F	103	9511	0 P	105	9513	3	107	9515	5	109	9517	31 F
111	9519	3	113	9521	0 P	115	9523	89 F	117	9525	3	119	9527	7 F
121	9529	13 F	123	9531	3 F	125	9533	0 P	127	9535	5 F	129	9537	3
131	9539	0 P	133	9541	7	135	9543	3 F	137	9545	5	139	9547	0 P
141	9549	3 F	143	9551	0 P	145	9553	41 F	147	9555	3	149	9557	19 F
151	9559	11	153	9561	3 F	155	9563	73 F	157	9565	5 F	159	9567	3 F
161	9569	7 F	163	9571	17 F	165	9573	3 F	167	9575	5 F	169	9577	61 F
171	9579	3	173	9581	11	175	9583	7	177	9585	3	179	9587	0 P
181	9589	43 F	183	9591	3	185	9593	53 F	187	9595	5	189	9597	3
191	9599	29 F	193	9601	0 P	195	9603	3	197	9605	5	199	9607	13 F
201	9609	3 F	203	9611	7 F	205	9613	0 P	207	9615	3	209	9617	59 F
211	9619	0 P	213	9621	3 F	215	9623	0 P	217	9625	5	219	9627	3 F
221	9629	0 P	223	9631	0 P	225	9633	3	227	9635	5	229	9637	23 F
231	9639	3	233	9641	31 F	235	9643	0 P	237	9645	3	239	9647	11 F
241	9649	0 P	243	9651	3 F	245	9653	7 F	247	9655	5 F	249	9657	3
251	9659	13 F	253	9661	0 P	255	9663	3 F	257	9665	5 F	259	9667	7 F
261	9669	3	263	9671	19 F	265	9673	17 F	267	9675	3	269	9677	0 P
271	9679	0 P	273	9681	3	275	9683	23 F	277	9685	5	279	9687	3 F
281	9689	0 P	283	9691	11 F	285	9693	3 F	287	9695	5	289	9697	0 P
291	9699	3	293	9701	89 F	295	9703	31 F	297	9705	3	299	9707	17 F
301	9709	7	303	9711	3	305	9713	11 F	307	9715	5	309	9717	3
311	9719	0 P	313	9721	0 P	315	9723	3	317	9725	5 F	319	9727	71 F
321	9729	3	323	9731	37 F	325	9733	0 P	327	9735	3	329	9737	7
331	9739	0 P	333	9741	3	335	9743	0 P	337	9745	5 F	339	9747	3
341	9749	0 P	343	9751	7 F	345	9753	3 F	347	9755	5 F	349	9757	11 F
351	9759	3 F	353	9761	43 F	355	9763	13 F	357	9765	3	359	9767	0 P
361	9769	0 P	363	9771	3 F	365	9773	29 F	367	9775	5	369	9777	3 F
371	9779	7	373	9781	0 P	375	9783	3 F	377	9785	5	379	9787	0 P
381	9789	3	383	9791	0 P	385	9793	7 F	387	9795	3	389	9797	97 F
391	9799	41 F	393	9801	3	395	9803	0 P	397	9805	5	399	9807	3
401	9809	17 F	403	9811	0 P	405	9813	3 F	407	9815	5	409	9817	0 P
411	9819	3 F	413	9821	7	415	9823	11	417	9825	3	419	9827	31 F
421	9829	0 P	423	9831	3	425	9833	0 P	427	9835	5	429	9837	3 F
431	9839	0 P	433	9841	13 F	435	9843	3	437	9845	5	439	9847	43 F
441	9849	3	443	9851	0 P	445	9853	59 F	447	9855	3	449	9857	0 P
451	9859	0 P	453	9861	3	455	9863	7 F	457	9865	5 F	459	9867	3
461	9869	71 F	463	9871	0 P	465	9873	3 F	467	9875	5	469	9877	7
471	9879	3	473	9881	41 F	475	9883	0 P	477	9885	3	479	9887	0 P
481	9889	11	483	9891	3	485	9893	13 F	487	9895	5 F	489	9897	3 F
491	9899	19 F	493	9901	0 P	495	9903	3 F	497	9905	5	499	9907	0 P
501	9909	3 F	503	9911	11	505	9913	23 F	507	9915	3	509	9917	47 F
511	9919	7	513	9921	3 F	515	9923	0 P	517	9925	5 F	519	9927	3 F
521	9929	0 P	523	9931	0 P	525	9933	3	527	9935	5 F	529	9937	19 F
531	9939	3 F	533	9941	0 P	535	9943	61 F	537	9945	3	539	9947	7
541	9949	0 P	543	9951	3	545	9953	37 F	547	9955	5	549	9957	3 F
551	9959	23 F	553	9961	7 F	555	9963	3	557	9965	5 F	559	9967	0 P
561	9969	3 F	563	9971	13	565	9973	0 P	567	9975	3	569	9977	11 F
571	9979	17 F	573	9981	3 F	575	9983	67 F	577	9985	5 F	579	9987	3 F
581	9989	7 F	583	9991	97 F	585	9993	3 F	587	9995	5 F	589	9997	13 F
591	9999	3	593	10001	73 F	595	10003	7 F	597	10005	3	599	10007	0 P
601	10009	0 P	603	10011	3	605	10013	17	607	10015	5 F	609	10017	3
611	10019	43 F	613	10021	11 F	615	10023	3	617	10025	5 F	619	10027	37 F
621	10029	3 F	623	10031	7 F	625	10033	79 F	627	10035	3	629	10037	0 P
631	10039	0 P	633	10041	3 F	635	10043	11	637	10045	5	639	10047	3
641	10049	13 F	643	10051	19	645	10053	3 F	647	10055	5 F	649	10057	89 F
651	10059	3	653	10061	0 P	655	10063	29 F	657	10065	3	659	10067	0 P
661	10069	0 P	663	10071	3 F	665	10073	7 F	667	10075	5	669	10077	3 F
671	10079	0 P	673	10081	17 F	675	10083	3 F	677	10085	5 F	679	10087	7
681	10089	3	683	10091	0 P	685	10093	0 P	687	10095	3	689	10097	23 F
691	10099	0 P	693	10101	3	695	10103	0 P	697	10105	5	699	10107	3 F
701	10109	11 F	703	10111	0 P	705	10113	3 F	707	10115	5	709	10117	67 F
711	10119	3 F	713	10121	29 F	715	10123	53 F	717	10125	3	719	10127	13
721	10129	7 F	723	10131	3	725	10133	0 P	727	10135	5 F	729	10137	3
731	10139	0 P	733	10141	0 P	735	10143	3	737	10145	5 F	739	10147	73 F
741	10149	3	743	10151	0 P	745	10153	11	747	10155	3	749	10157	7 F
751	10159	0 P	753	10161	3 F	755	10163	0 P	757	10165	5	759	10167	3 F

761	10169	0 P	763	10171	7 F	765	10173	3 F	767	10175	5	769	10177	0 P	
771	10179	3	773	10181	0 P	775	10183	17 F	777	10185	3	779	10187	61 F	
781	10189	23 F	783	10191	3	785	10193	0 P	787	10195	5 F	789	10197	3	
791	10199	7	793	10201	101 F										

=====

Table 3: Prime divisors for the odd numbers between 9409 and 10201

Only the odd numbers are listed here. With "Index" the index of the filling area is denoted. With "Number" the corresponding number between the prime-squares and with "PFaktor" a prime factor are listed. It is the smallest prime factor of the corresponding number. If a "P" follows, there is a prime number and "F" means: This is the only prime factor $\leq p_i$, but multiple identical prime factors are not excluded. We see: 10117 has the prime factor 67 and this is the only prime factor ≤ 97 . With a little modification of the algorithm the greatest prime factor or all prime factors ≤ 97 can be computed.

The prime number 97 and the complements at the prime square 9409 can be stored in a file. This has the advantage that by the search of a prime factor of a greater number to have recourse to these values. Then we must not begin at 49 again.

Beispiel für die Bestimmung eines Primteilers