

List of Continued Fraction Expansions of Integral Square Roots

<b>n</b>	<b>Continued Fraction Expansion Of <math>\sqrt{n}</math></b>	<b>Period</b>
1	1 -- Perfect Square	0
2	1; 2, 2, ...	1
3	1; 1, 2, 1, 2, ...	2
4	2 -- Perfect Square	0
5	2; 4, 4, ...	1
6	2; 2, 4, 2, 4, ...	2
7	2; 1, 1, 1, 4, 1, 1, 1, 4, ...	4
8	2; 1, 4, 1, 4, ...	2
9	3 -- Perfect Square	0
10	3; 6, 6, ...	1
11	3; 3, 6, 3, 6, ...	2
12	3; 2, 6, 2, 6, ...	2
13	3; 1[4], 6, 1[4], 6, ...	5
14	3; 1, 2, 1, 6, 1, 2, 1, 6, ...	4
15	3; 1, 6, 1, 6, ...	2
16	4 -- Perfect Square	0
17	4; 8, 8, ...	1
18	4; 4, 8, 4, 8, ...	2
19	4; 2, 1, 3, 1, 2, 8, 2, 1, 3, 1, 2, 8, ...	6
20	4; 2, 8, 2, 8, ...	2
21	4; 1, 1, 2, 1, 1, 8, 1, 1, 2, 1, 1, 8, ...	6
22	4; 1, 2, 4, 2, 1, 8, 1, 2, 4, 2, 1, 8, ...	6
23	4; 1, 3, 1, 8, 1, 3, 1, 8, ...	4
24	4; 1, 8, 1, 8, ...	2
25	5 -- Perfect Square	0
26	5; 10, 10, ...	1
27	5; 5, 10, 5, 10, ...	2
28	5; 3, 2, 3, 10, 3, 2, 3, 10, ...	4
29	5; 2, 1, 1, 2, 10, 2, 1, 1, 2, 10, ...	5
30	5; 2, 10, 2, 10, ...	2
31	5; 1, 1, 3, 5, 3, 1, 1, 10, 1, 1, 3, 5, 3, 1, 1, 10, ...	8
32	5; 1, 1, 1, 10, 1, 1, 1, 10, ...	4
33	5; 1, 2, 1, 10, 1, 2, 1, 10, ...	4
34	5; 1, 4, 1, 10, 1, 4, 1, 10, ...	4
35	5; 1, 10, 1, 10, ...	2
36	6 -- Perfect Square	0
37	6; 12, 12, ...	1
38	6; 6, 12, 6, 12, ...	2
39	6; 4, 12, 4, 12, ...	2
40	6; 3, 12, 3, 12, ...	2
41	6; 2, 2, 12, 2, 2, 12, ...	3
42	6; 2, 12, 2, 12, ..	2
43	6; 1, 1, 3, 1, 5, 1, 3, 1, 1, 12, 1, 1, 3, 1, 5, 1, 3, 1, 1, 12, ...	10
44	6; 1, 1, 1, 2, 1, 1, 1, 12, 1, 1, 1, 2, 1, 1, 1, 12, ...	8
45	6; 1, 2, 2, 2, 1, 12, 1, 2, 2, 2, 1, 12, ...	6
46	6; 1, 3, 1, 1, 2, 6, 2, 1, 1, 3, 1, 12, 1, 3, 1, 1, 2, 6, 2, 1, 1, 3, 1, 12, ...	12
47	6; 1, 5, 1, 12, 1, 5, 1, 12, ...	4
48	6; 1, 12, 1, 12, ...	2
49	7 -- Perfect Square	0
50	7; 14, 14, ...	1

## List of Continued Fraction Expansions of Integral Square Roots

<b>n</b>	<b>Continued Fraction Expansion Of <math>\sqrt{n}</math></b>	<b>Period</b>
51	7; 7, 14, 7, 14, ...	2
52	7; 4, 1, 2, 1, 4, 14, 4, 1, 2, 1, 4, 14, ...	6
<b>53</b>	7; 3, 1, 1, 3, 14, 3, 1, 1, 3, 14, ...	5
54	7; 2, 1, 6, 1, 2, 14, 2, 1, 6, 1, 2, 14, ...	6
55	7; 2, 2, 2, 14, 2, 2, 2, 14, ...	4
56	7; 2, 14, 2, 14, ...	2
57	7; 1, 1, 4, 1, 1, 14, 1, 1, 4, 1, 1, 14, ...	6
58	7; 1[6], 14, 1[6], 14, ...	7
<b>59</b>	7; 1, 2, 7, 2, 1, 14, 1, 2, 7, 2, 1, 14, ...	6
60	7; 1, 2, 1, 14, 1, 2, 1, 14, ...	4
<b>61</b>	7; 1, 4, 3, 1, 2, 2, 1, 3, 4, 1, 14, 1, 4, 3, 1, 2, 2, 1, 3, 4, 1, 14, ...	11
62	7; 1, 6, 1, 14, 1, 6, 1, 14, ...	4
63	7; 1, 14, 1, 14, ...	2
64	8 -- Perfect Square	0
65	8; 16, 16, ...	1
66	8; 8, 16, 8, 16, ...	2
<b>67</b>	8; 5, 2, 1, 1, 7, 1, 1, 2, 5, 16, 5, 2, 1, 1, 7, 1, 1, 2, 5, 16, ...	10
68	8; 4, 16, 4, 16, ...	2
69	8; 3, 3, 1, 4, 1, 3, 3, 16, 3, 3, 1, 4, 1, 3, 3, 16, ...	8
70	8; 2, 1, 2, 1, 2, 16, 2, 1, 2, 1, 2, 16, ...	6
<b>71</b>	8; 2, 2, 1, 7, 1, 2, 2, 16, 2, 2, 1, 7, 1, 2, 2, 16, ...	8
72	8; 2, 16, 2, 16, ...	2
<b>73</b>	8; 1, 1, 5, 5, 1, 1, 16, 1, 1, 5, 5, 1, 1, 16, ...	7
74	8; 1[4], 16, 1[4], 16, ...	5
75	8; 1, 1, 1, 16, 1, 1, 1, 16, ...	4
76	8; 1, 2, 1, 1, 5, 4, 5, 1, 1, 2, 1, 16, 1, 2, 1, 1, 5, 4, 5, 1, 1, 2, 1, 16, ...	12
77	8; 1, 3, 2, 3, 1, 16, 1, 3, 2, 3, 1, 16, ...	6
78	8; 1, 4, 1, 16, 1, 4, 1, 16, ...	4
<b>79</b>	8; 1, 7, 1, 16, 1, 7, 1, 16, ...	4
80	8; 1, 16, 1, 16, ...	2
81	9 -- Perfect Square	0
82	9; 18, 18, ...	1
<b>83</b>	9; 9, 18, 9, 18, ...	2
84	9; 6, 18, 6, 18, ...	2
85	9; 4, 1, 1, 4, 18, 4, 1, 1, 4, 18, ...	5
86	9; 3, 1, 1, 1, 8, 1, 1, 1, 3, 18, 3, 1, 1, 1, 8, 1, 1, 1, 3, 18, ...	10
87	9; 3, 18, 3, 18, ...	2
88	9; 2, 1, 1, 1, 2, 18, 2, 1, 1, 1, 2, 18, ...	6
<b>89</b>	9; 2, 3, 3, 2, 18, 2, 3, 3, 2, 18, ...	5
90	9; 2, 18, 2, 18, ...	2
91	9; 1, 1, 5, 1, 5, 1, 1, 18, 1, 1, 5, 1, 5, 1, 1, 18, ...	8
92	9; 1, 1, 2, 4, 2, 1, 1, 18, 1, 1, 2, 4, 2, 1, 1, 18, ...	8
93	9; 1, 1, 1, 4, 6, 4, 1, 1, 1, 18, 1, 1, 1, 4, 6, 4, 1, 1, 1, 18, ...	10
94	9; 1, 2, 3, 1, 1, 5, 1, 8, 1, 5, 1, 1, 3, 2, 1, 18, 1, 2, 3, 1, 1, 5, 1, 8, 5, 1, 1, 3, 2, 1, 18, ...	16
95	9; 1, 2, 1, 18, 1, 2, 1, 18, ...	4
96	9; 1, 3, 1, 18, 1, 3, 1, 18, ...	4
<b>97</b>	9; 1, 5, 1[6], 5, 1, 18, 1, 5, 1[6], 5, 1, 18, ...	11
98	9; 1, 8, 1, 18, 1, 8, 1, 18, ...	4
99	9; 1, 18, 1, 18, ...	2
100	10 -- Perfect Square	0

List of Continued Fraction Expansions of Integral Square Roots

n	Continued Fraction Expansion Of $\sqrt{n}$	Period
101	10; 20, 20, ...	1
102	10; 10, 20, 10, 20, ...	2
103	10; 6, 1, 2, 1, 1, 9, 1, 1, 2, 1, 6, 20, 6, 1, 2, 1, 1, 9, 1, 1, 2, 1, 6, 20, ...	12
104	10; 5, 20, 5, 20, ...	2
105	10; 4, 20, 4, 20, ...	2
106	10; 3, 2, 1[4], 2, 3, 20, 3, 2, 1[4], 2, 3, 20, ...	9
107	10; 2, 1, 9, 1, 2, 20, 2, 1, 9, 1, 2, 20, ...	6
108	10; 2, 1, 1, 4, 1, 1, 2, 20, 2, 1, 1, 4, 1, 1, 2, 20, ...	8
109	10; 2, 3, 1, 2, 4, 1, 6, 6, 1, 4, 2, 1, 3, 2, 20, 2, 3, 1, 2, 4, 1, 6, 6, 1, 4, 2, 1, 3, 2, 20, ...	15
110	10; 2, 20, 2, 20, ...	2
111	10; 1, 1, 6, 1, 1, 20, 1, 1, 6, 1, 1, 20, ...	6
112	10; 1, 1, 2, 1, 1, 20, 1, 1, 2, 1, 1, 20, ...	6
113	10; 1, 1, 1, 2, 2, 1, 1, 1, 20, 1, 1, 1, 2, 2, 1, 1, 1, 20, ...	9
114	10; 1, 2, 10, 2, 1, 20, 1, 2, 10, 2, 1, 20, ...	6
115	10; 1, 2, 1, 1, 1, 1, 1, 2, 1, 20, 1, 2, 1, 1, 1, 1, 1, 2, 1, 20, ...	10
116	10; 1, 3, 2, 1, 4, 1, 2, 3, 1, 20, 1, 3, 2, 1, 4, 1, 2, 3, 1, 20, ...	10
117	10; 1, 4, 2, 4, 1, 20, 1, 4, 2, 4, 1, 20, ...	6
118	10; 1, 6, 3, 2, 10, 2, 3, 6, 1, 20, 1, 6, 3, 2, 10, 2, 3, 6, 1, 20, ...	10
119	10; 1, 9, 1, 20, 1, 9, 1, 20, ...	4
120	10; 1, 20, 1, 20, ...	2
121	11 -- Perfect Square	0
122	11; 22, 22, ...	1
123	11; 11, 22, 11, 22, ...	2
124	11; 7, 2, 1, 1, 1, 3, 1, 4, 1, 3, 1, 1, 1, 2, 7, 22, 7, 2, 1, 1, 1, 3, 1, 4, 1, 3, 1, 1, 1, 2, 7, 22, ...	16
125	11; 5, 1, 1, 5, 22, 5, 1, 1, 5, 22, ...	5
126	11; 4, 2, 4, 22, 4, 2, 4, 22, ...	4
127	11; 3, 1, 2, 2, 7, 11, 7, 2, 2, 1, 3, 22, 3, 1, 2, 2, 7, 11, 7, 2, 2, 1, 3, 22, ...	12
128	11; 3, 5, 3, 22, 3, 5, 3, 22, ...	4
129	11; 2, 1, 3, 1, 6, 1, 3, 1, 2, 22, 2, 1, 3, 1, 6, 1, 3, 1, 2, 22, ...	10
130	11; 2, 2, 22, 2, 2, 22, ...	3
131	11; 2, 4, 11, 4, 2, 22, 2, 4, 11, 4, 2, 22, ...	6
132	11; 2, 22, 2, 22, ...	2
133	11; 1, 1, 7, 5, 1, 1, 1, 2, 1, 1, 1, 5, 7, 1, 1, 22, 1, 1, 7, 5, 1, 1, 1, 2, 1, 1, 1, 5, 7, 1, 1, 22, ...	16
134	11; 1, 1, 2, 1, 3, 1, 10, 1, 3, 1, 2, 1, 1, 22, 1, 1, 2, 1, 3, 1, 10, 1, 3, 1, 2, 1, 1, 22, ...	14
135	11; 1[7], 22, 1[7], 22, ...	8
136	11; 1, 1, 1, 22, 1, 1, 1, 22, ...	4
137	11; 1, 2, 2, 1, 1, 2, 2, 1, 22, 1, 2, 2, 1, 2, 2, 1, 22, ...	9
138	11; 1, 2, 1, 22, 1, 2, 1, 22, ...	4
139	11; 1, 3, 1, 3, 7, 1, 1, 2, 11, 2, 1, 1, 7, 3, 1, 3, 1, 22, ...	18
140	11; 1, 4, 1, 22, 1, 4, 1, 22, ...	4
141	11; 1, 6, 1, 22, 1, 6, 1, 22, ...	4
142	11; 1, 10, 1, 22, 1, 10, 1, 22, ...	4
143	11; 1, 22, 1, 22, ...	2
144	12 -- Perfect Square	0
145	12; 24, 24, ...	1
146	12; 12, 24, 12, 24, ...	2
147	12; 8, 24, 8, 24, ...	2
148	12; 6, 24, 6, 24, ...	2
149	12; 4, 1, 5, 3, 3, 5, 1, 4, 24, 4, 1, 5, 3, 3, 5, 1, 4, 24, ...	9
150	12; 4, 24, 4, 24, ...	2

List of Continued Fraction Expansions of Integral Square Roots

n	Continued Fraction Expansion Of $\sqrt{n}$	Period
151	12; 3, 2, 7, 1, 3, 4, 1, 1, 1, 11, 1, 1, 1, 4, 3, 1, 7, 2, 3, 24, ...	20
152	12; 3, 24, 3, 24, ...	2
153	12; 2, 1, 2, 2, 2, 1, 2, 24, 2, 1, 2, 2, 2, 1, 2, 24, ...	8
154	12, 2, 2, 3, 1, 2, 1, 3, 2, 2, 24, 2, 2, 3, 1, 2, 1, 3, 2, 2, 24, ...	10
155	12; 2, 4, 2, 24, 2, 4, 2, 24, ...	4
156	12, 2, 24, 2, 24, ...	2
157	12; 1, 1, 7, 1, 5, 2, 1[4], 2, 5, 1, 7, 1, 1, 24, 1, 1, 7, 1, 5, 2, 1[4], 2, 5, 1, 7, 1, 1, 24, ...	17
158	12; 1, 1, 3, 12, 3, 1, 1, 24, 1, 1, 3, 12, 3, 1, 1, 24, ...	8
159	12; 1[4], 3, 1[4], 24, 1[4], 3, 1[4], 24, ...	10
160	12; 1, 1, 1, 5, 1, 1, 1, 24, 1, 1, 1, 5, 1, 1, 1, 24, ...	8
161	12; 1, 2, 4, 1, 2, 1, 4, 2, 1, 24, 1, 2, 4, 1, 2, 1, 4, 2, 1, 24, ...	10
162	12; 1, 2, 1, 2, 12, 2, 1, 2, 1, 24, 1, 2, 1, 2, 12, 2, 1, 2, 1, 24, ...	10
163	12; 1, 3, 3, 2, 1, 1, 7, 1, 11, 1, 7, 1, 1, 2, 3, 3, 1, 24, ...	18
164	12; 1, 4, 6, 4, 1, 24, 1, 4, 6, 4, 1, 24, ...	6
165	12; 1, 5, 2, 5, 1, 24, 1, 5, 2, 5, 1, 24, ...	6
166	12; 1, 7, 1, 1, 1, 2, 4, 1, 3, 2, 12, 2, 3, 1, 4, 2, 1, 1, 1, 7, 1, 24, ...	22
167	12; 1, 11, 1, 24, 1, 11, 1, 24, ...	4
168	12; 1, 24, 1, 24, ...	2
169	13 -- Perfect Square	0
170	13; 26, 26, ...	1
171	13; 13, 26, 13, 26, ...	2
172	13; 8, 1, 2, 2, 1, 1, 3, 6, 3, 1, 1, 2, 2, 1, 8, 26, 8, 1, 2, 2, 1, 1, 3, 6, 3, 1, 1, 2, 2, 1, 8, 26, ...	16
173	13; 6, 1, 1, 6, 26, 6, 1, 1, 6, 26, ...	5
174	13; 5, 4, 5, 26, 5, 4, 5, 26, ...	4
175	13; 4, 2, 1, 2, 4, 26, 4, 2, 1, 2, 4, 26, ...	6
176	13; 3, 1, 3, 26, 3, 1, 3, 26, ...	4
177	13; 3, 3, 2, 8, 2, 3, 3, 26, 3, 3, 2, 8, 2, 3, 3, 26, ...	8
178	13; 2, 1, 12, 1, 2, 26, 2, 1, 12, 1, 2, 26, ...	6
179	13; 2, 1, 1, 1, 3, 5, 13, 5, 3, 1, 1, 1, 2, 26, 2, 1, 1, 1, 3, 5, 13, 5, 3, 1, 1, 1, 2, 26, ...	14
180	13; 2, 2, 2, 26, 2, 2, 2, 26, ...	4
181	13; 2, 4, 1, 8, 6, 1[4], 2, 2, 1[4], 6, 8, 1, 4, 2, 26, ...	21
182	13; 2, 26, 2, 26, ...	2
183	13; 1, 1, 8, 1, 1, 26, 1, 1, 8, 1, 1, 26, ...	6
184	13; 1, 1, 3, 2, 1, 2, 1, 2, 3, 1, 1, 26, 1, 1, 3, 2, 1, 2, 1, 2, 3, 1, 1, 26, ...	12
185	13; 1[4], 26, 1[4], 26, ...	5
186	13; 1, 1, 1, 3, 4, 3, 1, 1, 1, 26, 1, 1, 1, 3, 4, 3, 1, 1, 1, 26, ...	10
187	13; 1, 2, 13, 2, 1, 26, 1, 2, 13, 2, 1, 26, ...	6
188	13; 1, 2, 2, 6, 2, 2, 1, 26, 1, 2, 2, 6, 2, 2, 1, 26, ...	8
189	13; 1, 2, 1, 26, 1, 2, 1, 26, ...	4
190	13; 1, 3, 1, 1, 1, 2, 2, 2, 1, 1, 1, 3, 1, 26, 1, 3, 1, 1, 1, 2, 2, 2, 1, 1, 1, 3, 1, 26, ...	14
191	13; 1, 4, 1, 1, 3, 2, 2, 13, 2, 2, 3, 1, 1, 4, 1, 26, 1, 4, 1, 1, 3, 2, 2, 13, 2, 2, 3, 1, 1, 4, 1, 26, ...	16
192	13; 1, 5, 1, 26, 1, 5, 1, 26, ...	4
193	13; 1, 8, 3, 2, 1, 3, 3, 1, 2, 3, 8, 1, 26, 1, 8, 3, 2, 1, 3, 3, 1, 2, 3, 8, 1, 26, ...	13
194	13; 1, 12, 1, 26, 1, 12, 1, 26, ...	4
195	13; 1, 26, 1, 26, ...	2
196	14 -- Perfect Square	0
197	14; 28, 28, ...	1
198	14; 14, 28, 14, 28, ...	2
199	14; 9, 2, 1, 2, 2, 5, 4, 1, 1, 13, 1, 1, 4, 5, 2, 2, 1, 2, 9, 28, ...	20
200	14; 7, 28, 7, 28, ...	2

List of Continued Fraction Expansions of Integral Square Roots

n	Continued Fraction Expansion Of $\sqrt{n}$	Period
201	14; 5, 1, 1, 1, 2, 1, 8, 1, 2, 1, 1, 1, 5, 28, ...	14
202	14; 4, 1, 2, 2, 1, 4, 28, 4, 1, 2, 2, 1, 4, 28, ...	7
203	14; 4, 28, 4, 28, ...	2
204	14; 3, 1, 1, 6, 1, 1, 3, 28, 3, 1, 1, 6, 1, 1, 3, 28, ...	8
205	14; 3, 6, 1, 4, 1, 6, 3, 28, 3, 6, 1, 4, 1, 6, 3, 28, ...	8
206	14; 2, 1, 5, 14, 5, 1, 2, 28, 2, 1, 5, 14, 5, 1, 2, 28, ...	8
207	14; 2, 1, 1, 2, 1, 1, 2, 28, 2, 1, 1, 2, 1, 1, 2, 28, ...	8
208	14; 2, 2, 1, 2, 2, 28, 2, 2, 1, 2, 2, 28, ...	6
209	14; 2, 5, 3, 2, 3, 5, 2, 28, 2, 5, 3, 2, 3, 5, 2, 28, ...	8
210	14; 2, 28, 2, 28, ...	2
<b>211</b>	14; 1, 1, 9, 5, 1, 2, 2, 1, 1, 4, 3, 1, 13, 1, 3, 4, 1, 1, 2, 2, 1, 5, 9, 1, 1, 28, ...	26
212	14; 1, 1, 3, 1, 1, 1, 6, 1, 1, 1, 3, 1, 1, 28, 1, 1, 3, 1, 1, 1, 6, 1, 1, 1, 3, 1, 1, 28, ...	14
213	14; 1, 1, 2, 6, 1, 8, 1, 6, 2, 1, 1, 28, 1, 1, 2, 6, 1, 8, 1, 6, 2, 1, 1, 28, ...	12
214	14; 1, 1, 1, 2, 3, 1, 4, 9, 1, 1, 5, 3, 14, 3, 5, 1, 1, 9, 4, 1, 3, 2, 1, 1, 1, 28, ...	26
215	14; 1, 1, 1, 28, 1, 1, 1, 28, ...	4
216	14; 1, 2, 3, 2, 1, 28, 1, 2, 3, 2, 1, 28, ...	6
217	14; 1, 2, 1, 2, 1, 1, 9, 4, 9, 1, 1, 2, 1, 2, 1, 28, 1, 2, 1, 2, 1, 1, 9, 4, 9, 1, 1, 2, 1, 2, 1, 28, ...	16
218	14; 1, 3, 3, 1, 28, 1, 3, 3, 1, 28, ...	5
219	14; 1, 3, 1, 28, 1, 3, 1, 28, ...	4
220	14; 1, 4, 1, 28, 1, 4, 1, 28, ...	4
221	14; 1, 6, 2, 6, 1, 28, 1, 6, 2, 6, 1, 28, ...	6
222	14; 1, 8, 1, 28, 1, 8, 1, 28, ...	4
<b>223</b>	14; 1, 13, 1, 28, 1, 13, 1, 28, ...	4
224	14; 1, 28, 1, 28, ...	2
225	15 -- Perfect Square	0
226	15; 30, 30, ...	1
<b>227</b>	15; 15, 30, 15, 30, ...	2
228	15; 10, 30, 10, 30, ...	2
<b>229</b>	15; 7, 1, 1, 7, 30, 7, 1, 1, 7, 30, ...	5
230	15; 6, 30, 6, 30, ...	2
231	15; 5, 30, 5, 30, ...	2
232	15; 4, 3, 7, 3, 4, 30, 4, 3, 7, 3, 4, 30, ...	6
<b>233</b>	15; 3, 1, 3, 1[4], 3, 1, 3, 30, 3, 1, 3, 1[4], 3, 1, 3, 30, ...	11
234	15; 3, 2, 1, 2, 1, 2, 3, 30, 3, 2, 1, 2, 1, 2, 3, 30, ...	8
235	15; 3, 30, 3, 30, ...	2
236	15; 2, 1, 3, 5, 1, 6, 1, 5, 3, 1, 2, 30, 2, 1, 3, 5, 1, 6, 1, 5, 3, 1, 2, 30, ...	12
237	15; 2, 1, 1, 7, 10, 7, 1, 1, 2, 30, 2, 1, 1, 7, 10, 7, 1, 1, 2, 30, ...	10
238	15; 2, 2, 1, 14, 1, 2, 2, 30, 2, 2, 1, 14, 1, 2, 2, 30, ...	8
<b>239</b>	15; 2, 5, 1, 2, 4, 15, 4, 2, 1, 5, 2, 30, 2, 5, 1, 2, 4, 15, 4, 2, 1, 5, 2, 30, ...	12
240	15; 2, 30, 2, 30, ...	2
<b>241</b>	15; 1, 1, 9, 1, 5, 3, 3, 1, 1, 3, 3, 5, 1, 9, 1, 1, 30, 1, 1, 9, 1, 5, 3, 3, 1, 1, 3, 3, 5, 1, 9, 1, 1, 30, ...	17
242	15; 1, 1, 3, 1, 14, 1, 3, 1, 1, 30, 1, 1, 3, 1, 14, 1, 3, 1, 1, 30, ...	10
243	15; 1, 1, 2, 3, 15, 3, 2, 1, 1, 30, 1, 1, 2, 3, 15, 3, 2, 1, 1, 30, ...	10
244	15; 1[5], 2, 1, 5, 1, 1, 9, 1, 6, 1, 9, 1, 1, 5, 1, 2, 1[5], 30, ...	26
245	15; 1, 1, 1, 7, 6, 7, 1, 1, 1, 30, 1, 1, 1, 7, 6, 7, 1, 1, 1, 30, ...	10
246	15; 1, 2, 5, 1, 14, 1, 5, 2, 1, 30, 1, 2, 5, 1, 14, 1, 5, 2, 1, 30, ...	10
247	15; 1, 2, 1, 1, 9, 1, 9, 1, 1, 2, 1, 30, 1, 2, 1, 1, 9, 1, 9, 1, 1, 2, 1, 30, ...	12
248	15; 1, 2, 1, 30, 1, 2, 1, 30, ...	4
249	15; 1, 3, 1, 1, 5, 1, 3, 10, 3, 1, 5, 1, 1, 3, 1, 30, 1, 3, 1, 1, 5, 1, 3, 10, 3, 1, 5, 1, 1, 3, 1, 30, ...	16
250	15; 1, 4, 3, 3, 4, 1, 30, 1, 4, 3, 3, 4, 1, 30, ...	7

## List of Continued Fraction Expansions of Integral Square Roots

n	Continued Fraction Expansion Of $\sqrt{n}$	Period
251	15; 1, 5, 2, 1, 2, 2, 15, 2, 2, 1, 2, 5, 1, 30, 1, 5, 2, 1, 2, 2, 15, 2, 2, 1, 2, 5, 1, 30, ...	14
252	15; 1, 6, 1, 30, 1, 6, 1, 30, ...	4
253	15; 1, 9, 1, 1, 1, 2, 1, 7, 4, 2, 2, 4, 7, 1, 2, 1, 1, 1, 9, 1, 30, ...	22
254	15; 1, 14, 1, 30, 1, 14, 1, 30, ...	4
255	15; 1, 30, 1, 30, ...	2
256	16 -- Perfect Square	0
257	16; 32, 32, ...	1
258	16; 16, 32, 16, 32, ...	2
259	16; 10, 1, 2, 3, 4, 3, 2, 1, 10, 32, 10, 1, 2, 3, 4, 3, 2, 1, 10, 32, ...	10
260	16; 8, 32, 8, 32, ...	2
261	16; 6, 2, 3, 7, 1, 3, 1, 2, 1, 3, 1, 7, 3, 2, 6, 32, 6, 2, 3, 7, 1, 3, 1, 2, 1, 3, 1, 7, 3, 2, 6, 32, ...	16
262	16; 5, 2, 1, 2, 1, 10, 16, 10, 1, 2, 1, 2, 5, 32, 5, 2, 1, 2, 1, 10, 16, 10, 1, 2, 1, 2, 5, 32, ...	14
263	16; 4, 1[4], 15, 1[4], 4, 32, 4, 1[4], 15, 1[4], 4, 32, ...	12
264	16; 4, 32, 4, 32, ...	2
265	16; 3, 1, 1, 2, 2, 1, 1, 3, 32, 3, 1, 1, 2, 2, 1, 1, 3, 32, ...	9
266	16; 3, 4, 3, 32, 3, 4, 3, 32, ...	4
267	16; 2, 1, 15, 1, 2, 32, 2, 1, 15, 1, 2, 32, ...	6
268	16; 2, 1, 2, 3, 3, 1, 3, 1, 10, 8, 10, 1, 3, 1, 3, 3, 2, 1, 2, 32, ...	20
269	16; 2, 2, 32, 2, 2, 32, ...	3
270	16; 2, 3, 6, 3, 2, 32, 2, 3, 6, 3, 2, 32, ...	6
271	16; 2, 6, 10, 1, 4, 1, 1, 2, 1, 2, 1, 15, 1, 2, 1, 2, 1, 1, 4, 1, 10, 6, 2, 32, ...	24
272	16; 2, 32, 2, 32, ...	2
273	16; 1, 1, 10, 1, 1, 32, 1, 1, 10, 1, 1, 32, ...	6
274	16; 1, 1, 4, 4, 1, 1, 32, 1, 1, 4, 4, 1, 1, 32, ...	7
275	16; 1, 1, 2, 1, 1, 32, 1, 1, 2, 1, 1, 32, ...	6
276	16; 1[4], 2[3], 1[4], 32, 1[4], 2[3], 1[4], 32, ...	12
277	16; 1, 1, 1, 4, 10, 1, 7, 2, 2, 3, 3, 2, 2, 7, 1, 10, 4, 1, 1, 1, 32, ...	21
278	16; 1, 2, 16, 2, 1, 32, 1, 2, 16, 2, 1, 32, ...	6
279	16; 1, 2, 2, 1, 2, 2, 1, 32, 1, 2, 2, 1, 2, 2, 1, 32, ...	8
280	16; 1, 2, 1, 2, 1, 32, 1, 2, 1, 2, 1, 32, ...	6
281	16; 1, 3, 4, 1, 1, 6, 6, 1, 1, 4, 3, 1, 32, 1, 3, 4, 1, 1, 6, 6, 1, 1, 4, 3, 1, 32, ...	13
282	16; 1, 3, 1, 4, 1, 3, 1, 32, 1, 3, 1, 4, 1, 3, 1, 32, ...	8
283	16; 1, 4, 1, 1, 1, 3, 10, 1, 15, 1, 10, 3, 1, 1, 1, 4, 1, 32, ...	18
284	16; 1, 5, 1, 3, 2, 1, 4, 8, 4, 1, 2, 3, 1, 5, 1, 32, ...	16
285	16; 1, 7, 2, 7, 1, 32, 1, 7, 2, 7, 1, 32, ...	6
286	16; 1, 10, 3, 3, 2, 3, 3, 10, 1, 32, 1, 10, 3, 3, 2, 3, 3, 10, 1, 32, ...	10
287	16; 1, 15, 1, 32, 1, 15, 1, 32, ...	4
288	16; 1, 32, 1, 32, ...	2
289	17 -- Perfect Square	0
290	17; 34, 34, ...	1
291	17; 17, 34, 17, 34, ...	2
292	17; 11, 2, 1, 3, 8, 3, 1, 2, 11, 34, 11, 2, 1, 3, 8, 3, 1, 2, 11, 34, ...	10
293	17; 8, 1, 1, 8, 34, 8, 1, 1, 8, 34, ...	5
294	17; 6, 1, 4, 1, 6, 34, 6, 1, 4, 1, 6, 34, ...	6
295	17; 5, 1, 2, 3, 2, 6, 2, 3, 2, 1, 5, 34, 5, 1, 2, 3, 2, 6, 2, 3, 2, 1, 5, 34, ...	12
296	17; 4, 1, 7, 1, 4, 34, 4, 1, 7, 1, 4, 34, ...	6
297	17; 4, 3, 1, 1, 2, 1, 1, 3, 4, 34, 4, 3, 1, 1, 2, 1, 1, 3, 4, 34, ...	10
298	17; 3, 1, 4, 5, 1, 1, 5, 4, 1, 3, 34, 3, 1, 4, 5, 1, 1, 5, 4, 1, 3, 34, ...	11
299	17; 3, 2, 3, 34, 3, 2, 3, 34, ...	4
300	17; 3, 8, 3, 34, 3, 8, 3, 34, ...	4

List of Continued Fraction Expansions of Integral Square Roots

n	Continued Fraction Expansion Of $\sqrt{n}$	Period
301	17; 2, 1, 6, 3, 1, 2, 2, 1, 1, 8, 11, 2, 4, 2, 11, 8, 1, 1, 2, 2, 1, 3, 6, 1, 2, 34, ...	26
302	17; 2, 1, 1, 1, 4, 2, 1, 16, 1, 2, 4, 1, 1, 1, 2, 34, ...	16
303	17; 2, 2, 5, 2, 2, 34, 2, 2, 5, 2, 2, 34, ...	6
304	17; 2, 3, 2, 1[5], 2, 3, 2, 34, 2, 3, 2, 1[5], 2, 3, 2, 34, ...	12
305	17; 2, 6, 2, 34, 2, 6, 2, 34, ...	4
306	17; 2, 34, 2, 34, ...	2
<b>307</b>	17; 1, 1, 11, 5, 1, 3, 17, 3, 1, 5, 11, 1, 1, 34, 1, 1, 11, 5, 1, 3, 17, 3, 1, 5, 11, 1, 1, 34, ...	14
308	17; 1, 1, 4, 1, 1, 34, 1, 1, 4, 1, 1, 34, ...	6
309	17; 1, 1, 2, 1, 2, 4, 1, 1, 1, 8, 6, 1, 10, 1, 6, 8, 1, 1, 1, 4, 2, 1, 2, 1, 1, 34, ...	26
310	17; 1[4], 5, 3, 1, 2, 1, 3, 5, 1[4], 34, 1[4], 5, 3, 1, 2, 1, 3, 5, 1[4], 34, ...	16
<b>311</b>	17; 1, 1, 1, 2, 1, 6, 3, 17, 3, 6, 1, 2, 1, 1, 1, 34, ...	16
312	17; 1, 1, 1, 34, 1, 1, 1, 34, ...	4
<b>313</b>	17; 1, 2, 4, 11, 1, 1, 3, 2, 2, 3, 1, 1, 11, 4, 2, 1, 34, ...	17
314	17; 1, 2, 1, 1, 2, 1, 34, 1, 2, 1, 1, 2, 1, 34, ...	7
315	17; 1, 2, 1, 34, 1, 2, 1, 34, ...	4
316	17; 1, 3, 2, 8, 2, 3, 1, 34, 1, 3, 2, 8, 2, 3, 1, 34, ...	8
<b>317</b>	17; 1, 4, 8, 1, 2, 2, 1, 8, 4, 1, 34, 1, 4, 8, 1, 2, 2, 1, 8, 4, 1, 34, ...	11
318	17; 1, 4, 1, 34, 1, 4, 1, 34, ...	4
319	17; 1, 6, 5, 1, 4, 3, 1, 3, 4, 1, 5, 6, 1, 34, 1, 6, 5, 1, 4, 3, 1, 3, 4, 1, 5, 6, 1, 34, ...	14
320	17; 1, 7, 1, 34, 1, 7, 1, 34, ...	4
321	17; 1, 10, 1, 34, 1, 10, 1, 34, ...	4
322	17; 1, 16, 1, 34, 1, 16, 1, 34, ...	4
323	17; 1, 34, 1, 34, ...	2
324	18 -- Perfect Square	0
325	18; 36, 36, ...	1
326	18; 18, 36, 18, 36, ...	2
327	18; 12, 36, 12, 36, ...	2
328	18; 9, 36, 9, 36, ...	2
329	18; 7, 4, 2, 1, 1, 4, 1, 1, 2, 4, 7, 36, 7, 4, 2, 1, 1, 4, 1, 1, 2, 4, 7, 36, ...	12
330	18; 6, 36, 6, 36, ...	2
<b>331</b>	18; 5, 5, 1, 6, 2, 3, 1, 1, 2, 1, 2, 1, 11, 2, 1, 1, 17, 1, 1, 2, 11, 1, 2, 1, 2, 1, 1, 3, 2, 6, 1, 5, 5, 36, ...	34
332	18; 4, 1, 1, 8, 1, 1, 4, 36, 4, 1, 1, 8, 1, 1, 4, 36, ...	8
333	18; 4, 36, 4, 36, ...	2
334	18; 3, 1, 1, 1, 2, 5, 1, 2, 2, 11, 1, 3, 7, 18, 7, 3, 1, 11, 2, 2, 1, 5, 2, 1, 1, 1, 3, 36, ...	28
335	18; 3, 3, 3, 36, 3, 3, 3, 36, ...	4
336	18; 3, 36, 3, 36, ...	2
<b>337</b>	18; 2, 1, 3, 1, 11, 2, 4, 1, 3, 3, 1, 4, 2, 11, 1, 3, 1, 2, 36, ...	19
338	18; 2, 1, 1, 2, 36, 2, 1, 1, 2, 36, ...	5
339	18; 2, 2, 2, 1, 17, 1, 2, 2, 2, 36, 2, 2, 2, 1, 17, 1, 2, 2, 2, 36, ...	10
340	18; 2, 3, 1[4], 8, 1[4], 3, 2, 36, 2, 3, 1[4], 8, 1[4], 3, 2, 36, ...	14
341	18; 2, 6, 1, 8, 2, 1, 2, 1, 2, 8, 1, 6, 2, 36, 2, 6, 1, 8, 2, 1, 2, 1, 2, 8, 1, 6, 2, 36, ...	14
342	18; 2, 36, 2, 36, ...	2
343	18; 1, 1, 11, 1, 5, 3, 1, 17, 1, 3, 5, 1, 11, 1, 1, 36, 1, 1, 11, 1, 5, 3, 1, 17, 1, 3, 5, 1, 11, 1, 1, 36, ...	16
344	18; 1, 1, 4, 1, 3, 1, 4, 1, 1, 36, 1, 1, 4, 1, 3, 1, 4, 1, 1, 36, ...	10
345	18; 1, 1, 2, 1, 6, 1, 2, 1, 1, 36, 1, 1, 2, 1, 6, 1, 2, 1, 1, 36, ...	10
346	18; 1[4], 36, 1[4], 36, ...	5
<b>347</b>	18; 1, 1, 1, 2, 4, 1, 17, 1, 4, 2, 1, 1, 1, 36, 1, 1, 1, 2, 4, 1, 17, 1, 4, 2, 1, 1, 1, 36, ...	14
348	18; 1, 1, 1, 8, 1, 1, 1, 36, 1, 1, 1, 8, 1, 1, 1, 36, ...	8
<b>349</b>	18; 1, 2, 7, 7, 2, 1, 36, 1, 2, 7, 7, 2, 1, 36, ...	7
350	18; 1, 2, 2, 2, 1, 36, 1, 2, 2, 2, 1, 36, ...	6

List of Continued Fraction Expansions of Integral Square Roots

n	Continued Fraction Expansion Of $\sqrt{n}$	Period
351	18; 1, 2, 1, 3, 2, 2, 2, 3, 1, 2, 1, 36, 1, 2, 1, 3, 2, 2, 2, 3, 1, 2, 1, 36, ...	12
352	18; 1, 3, 5, 9, 5, 3, 1, 36, 1, 3, 5, 9, 5, 3, 1, 36, ...	8
<b>353</b>	18; 1, 3, 1, 2, 1[6], 2, 1, 3, 1, 36, 1, 3, 1, 2, 1[6], 2, 1, 3, 1, 36, ...	15
354	18; 1, 4, 2, 2, 18, 2, 2, 4, 1, 36, 1, 4, 2, 2, 18, 2, 2, 4, 1, 36, ...	10
355	18; 1, 5, 3, 3, 1, 6, 1, 3, 3, 5, 1, 36, 1, 5, 3, 3, 1, 6, 1, 3, 3, 5, 1, 36, ...	12
356	18; 1, 6, 1, 1, 2, 1, 8, 1, 2, 1, 1, 6, 1, 36, 1, 6, 1, 1, 2, 1, 8, 1, 2, 1, 1, 6, 1, 36, ...	14
357	18; 1, 8, 2, 8, 1, 36, 1, 8, 2, 8, 1, 36, ...	6
358	18; 1, 11, 1, 1, 1, 3, 1, 1, 4, 1, 5, 2, 18, 2, 5, 1, 4, 1, 1, 3, 1, 1, 1, 11, 1, 36, ...	26
<b>359</b>	18; 1, 17, 1, 36, 1, 17, 1, 36, ...	4
360	18; 1, 36, 1, 36, ...	2
361	19 -- Perfect Square	0
362	19; 38, 38, ...	1
363	19; 19, 38, 19, 38, ...	2
364	19; 12, 1, 2, 3, 1, 8, 1, 3, 2, 1, 12, 38, 12, 1, 2, 3, 1, 8, 1, 3, 2, 1, 12, 38, ...	12
365	19; 9, 1, 1, 9, 38, 9, 1, 1, 9, 38, ...	5
366	19; 7, 1, 1, 1, 2, 12, 2, 1, 1, 1, 7, 38, 7, 1, 1, 1, 2, 12, 2, 1, 1, 1, 7, 38, ...	12
<b>367</b>	19; 6, 2, 1, 3, 1, 1, 2, 1, 12, 19, 12, 1, 2, 1, 1, 3, 1, 2, 6, 38, ...	20
368	19; 5, 2, 5, 38, 5, 2, 5, 38, ...	4
369	19; 4, 1, 3, 2, 7, 4, 7, 2, 3, 1, 4, 38, 4, 1, 3, 2, 7, 4, 7, 2, 3, 1, 4, 38, ...	12
370	19; 4, 4, 38, 4, 4, 38, ...	3
371	19; 3, 1, 4, 1, 3, 38, 3, 1, 4, 1, 3, 38, ...	6
372	19; 3, 2, 12, 2, 3, 38, 3, 2, 12, 2, 3, 38, ...	6
<b>373</b>	19; 3, 5, 5, 3, 38, 3, 5, 5, 3, 38, ...	5
374	19; 2, 1, 18, 1, 2, 38, 2, 1, 18, 1, 2, 38, ...	6
375	19; 2, 1, 2, 1, 5, 1, 2, 1, 2, 38, 2, 1, 2, 1, 5, 1, 2, 1, 2, 38, ...	10
376	19; 2, 1, 1, 3, 1, 2, 2, 4, 2, 2, 1, 3, 1, 1, 2, 38, 2, 1, 1, 3, 1, 2, 2, 4, 2, 2, 1, 3, 1, 1, 2, 38, ...	16
377	19; 2, 2, 2, 38, 2, 2, 2, 38, ...	4
378	19; 2, 3, 1, 4, 1, 3, 2, 38, 2, 3, 1, 4, 1, 3, 2, 38, ...	8
<b>379</b>	19; 2, 7, 3, 2, 2, 6, 12, 1, 4, 1, 1, 1, 3, 4, 19, 4, 3, 1, 1, 1, 4, 1, 12, 6, 2, 2, 3, 7, 2, 38, ...	30
380	19; 2, 38, 2, 38, ...	2
381	19; 1, 1, 12, 1, 1, 38, 1, 1, 12, 1, 1, 38, ...	6
382	19; 1, 1, 5, 12, 1, 5, 1, 1, 2, 3, 1, 18, 1, 3, 2, 1, 1, 5, 1, 12, 5, 1, 1, 38, ...	24
<b>383</b>	19; 1, 1, 3, 19, 3, 1, 1, 38, 1, 1, 3, 19, 3, 1, 1, 38, ...	8
384	19; 1, 1, 2, 9, 2, 1, 1, 38, 1, 1, 2, 9, 2, 1, 1, 38, ...	8
385	19; 1[5], 3, 1, 2, 1, 3, 1[5], 38, 1[5], 3, 1, 2, 1, 3, 1[5], 38, ...	16
386	19; 1, 1, 1, 4, 1, 18, 1, 4, 1, 1, 1, 38, 1, 1, 1, 4, 1, 18, 1, 4, 1, 1, 1, 38, ...	12
387	19; 1, 2, 19, 2, 1, 38, 1, 2, 19, 2, 1, 38, ...	6
388	19; 1, 2, 3, 4, 12, 1, 8, 1, 12, 4, 3, 2, 1, 38, ...	14
<b>389</b>	19; 1, 2, 1, 1, 1, 1, 2, 1, 38, 1, 2, 1, 1, 1, 1, 2, 1, 38, ...	9
390	19; 1, 2, 1, 38, 1, 2, 1, 38, ...	4
391	19; 1, 3, 2, 2, 1, 1, 2, 19, 2, 1, 1, 2, 2, 3, 1, 38, ...	16
392	19; 1, 3, 1, 38, 1, 3, 1, 38, ...	4
393	19; 1, 4, 1, 2, 4, 1, 1, 1, 1, 12, 1, 1, 1, 1, 4, 2, 1, 4, 1, 38, ...	20
394	19; 1, 5, 1, 1, 1, 3, 1, 3, 5, 2, 2, 5, 3, 1, 3, 1, 1, 1, 5, 1, 38, ...	21
395	19; 1, 6, 1, 38, 1, 6, 1, 38, ...	4
396	19; 1, 8, 1, 38, 1, 8, 1, 38, ...	4
<b>397</b>	19; 1, 12, 3, 4, 9, 1, 2, 1, 2, 1, 1, 2, 1, 2, 1, 9, 4, 3, 12, 1, 38, ...	21
398	19; 1, 18, 1, 38, 1, 18, 1, 38, ...	4
399	19; 1, 38, 1, 38, ...	2
400	20 -- Perfect Square	0