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2	nonogram.py	22

1 Basic Test Results

```
Thu Jun 11 09:02:14 IDT 2020
1
    Process Process-49:
    Traceback (most recent call last):
      File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
4
      File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
6
        self._target(*self._args, **self._kwargs)
8
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
9
        res=target(*args, **kwargs)
10
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
        code,res = peel(runners, modulename, fname, args, kwargs)
11
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
12
        return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
13
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
14
15
        code,res = peel(runners, modulename, fname, args, kwargs)
16
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
17
        return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
18
        return None,func(*args, **kwargs)
19
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 131, in get_intersection_row
20
21
        result.append(the_rows[i][0])
    IndexError: list index out of range
22
23
    Process Process-339:
24
    Traceback (most recent call last):
      File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
25
        self.run()
26
      File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
27
        self._target(*self._args, **self._kwargs)
28
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
29
        res=target(*args, **kwargs)
30
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
31
32
        code,res = peel(runners, modulename, fname, args, kwargs)
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
33
34
        return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
35
        code,res = peel(runners, modulename, fname, args, kwargs)
36
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
37
        return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
38
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
39
40
        return None,func(*args, **kwargs)
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 332, in count_row_variations
41
42
        return int(binom_n_k(n, k))
43
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 337, in binom_n_k
        return f(n) / f(k) / f(n-k)
44
    OverflowError: integer division result too large for a float
45
    Process Process-340:
46
47
    Traceback (most recent call last):
      File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
48
        self.run()
49
      File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
50
        self._target(*self._args, **self._kwargs)
51
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
52
        res=target(*args, **kwargs)
53
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
54
55
        code,res = peel(runners, modulename, fname, args, kwargs)
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
        return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
57
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
58
        code,res = peel(runners, modulename, fname, args, kwargs)
```

```
File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
 60
             return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
 61
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
 62
             return None,func(*args, **kwargs)
 63
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 332, in count_row_variations
 64
 65
             return int(binom_n_k(n, k))
 66
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 337, in binom_n_k
             \texttt{return } \texttt{f(n)} \texttt{ / f(k) / f(n-k)}
 67
 68
       OverflowError: integer division result too large for a float
       Process Process-341:
 69
 70
       Traceback (most recent call last):
          File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
 71
             self.run()
 72
 73
          File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
 74
             self._target(*self._args, **self._kwargs)
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
 75
             res=target(*args, **kwargs)
 76
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
 77
 78
             code,res = peel(runners, modulename, fname, args, kwargs)
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
 79
             return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
 80
 81
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
 82
             code,res = peel(runners, modulename, fname, args, kwargs)
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
 83
 84
              return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
 85
             return None,func(*args, **kwargs)
 86
 87
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 332, in count_row_variations
             return int(binom_n_k(n, k))
 88
 89
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 337, in binom_n_k
 90
             return f(n) / f(k) / f(n-k)
       OverflowError: integer division result too large for a float
 91
       Process Process-342:
 92
       Traceback (most recent call last):
 93
          File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
 94
             self.run()
 95
 96
          File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
 97
             self._target(*self._args, **self._kwargs)
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
 98
             res=target(*args, **kwargs)
 99
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
100
             code,res = peel(runners, modulename, fname, args, kwargs)
101
          \label{limit} File ~"/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line ~7, in peel ~~100 files ~~100 files
102
103
             return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
104
105
             code,res = peel(runners, modulename, fname, args, kwargs)
106
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
             return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
107
108
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
109
             return None,func(*args, **kwargs)
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 332, in count_row_variations
110
             return int(binom_n_k(n, k))
111
112
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 337, in binom_n_k
113
             return f(n) / f(k) / f(n-k)
       OverflowError: integer division result too large for a float
114
       Process Process-343:
115
116
       Traceback (most recent call last):
          File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
117
             self.run()
118
          File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
119
120
             self._target(*self._args, **self._kwargs)
121
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
122
             res=target(*args, **kwargs)
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
123
124
             code,res = peel(runners, modulename, fname, args, kwargs)
125
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
             return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
126
          File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
```

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128
         code,res = peel(runners, modulename, fname, args, kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
129
130
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
131
         return None,func(*args, **kwargs)
132
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 332, in count_row_variations
133
134
         return int(binom_n_k(n, k))
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 337, in binom_n_k
135
136
         return f(n) / f(k) / f(n-k)
     OverflowError: integer division result too large for a float
137
138
     Process Process-344:
     Traceback (most recent call last):
139
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
140
141
         self.run()
142
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
         self._target(*self._args, **self._kwargs)
143
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
144
         res=target(*args, **kwargs)
145
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
146
         code,res = peel(runners, modulename, fname, args, kwargs)
147
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
148
149
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
150
151
         code,res = peel(runners, modulename, fname, args, kwargs)
152
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
153
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
154
155
         return None,func(*args, **kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 332, in count_row_variations
156
157
         return int(binom_n_k(n, k))
158
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 337, in binom_n_k
         return f(n) / f(k) / f(n-k)
159
160
     OverflowError: integer division result too large for a float
     Process Process-345:
161
     Traceback (most recent call last):
162
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
163
164
         self.run()
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
165
         self._target(*self._args, **self._kwargs)
166
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
167
168
         res=target(*args, **kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
169
170
         code,res = peel(runners, modulename, fname, args, kwargs)
171
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
172
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
173
174
         code,res = peel(runners, modulename, fname, args, kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
175
176
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
177
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
         return None, func(*args, **kwargs)
178
     TypeError: count_row_variations() takes 2 positional arguments but 3 were given
179
180
     Process Process-346:
181
     Traceback (most recent call last):
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
182
         self.run()
183
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
184
185
         self._target(*self._args, **self._kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
186
187
         res=target(*args, **kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
188
189
         code,res = peel(runners, modulename, fname, args, kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
190
191
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
192
193
         code,res = peel(runners, modulename, fname, args, kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
194
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
```

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196
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
         return None,func(*args, **kwargs)
197
198
     TypeError: count_row_variations() takes 2 positional arguments but 3 were given
199
     Process Process-347:
     Traceback (most recent call last):
200
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
201
202
         self.run()
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
203
204
         self._target(*self._args, **self._kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
205
         res=target(*args, **kwargs)
206
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
207
         code.res = peel(runners, modulename, fname, args, kwargs)
208
209
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
210
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
211
212
         code,res = peel(runners, modulename, fname, args, kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
213
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
214
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
215
216
         return None,func(*args, **kwargs)
217
     TypeError: count_row_variations() takes 2 positional arguments but 3 were given
218
     Process Process-348:
219
     Traceback (most recent call last):
220
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
221
         self.run()
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
222
223
         self._target(*self._args, **self._kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
224
225
         res=target(*args, **kwargs)
226
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
         code,res = peel(runners, modulename, fname, args, kwargs)
227
228
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
229
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
230
         code,res = peel(runners, modulename, fname, args, kwargs)
231
232
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
233
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
234
         return None, func(*args, **kwargs)
235
236
     TypeError: count_row_variations() takes 2 positional arguments but 3 were given
237
     Process Process-349:
238
     Traceback (most recent call last):
239
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
         self.run()
240
241
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
242
         self._target(*self._args, **self._kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
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         res=target(*args, **kwargs)
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       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
246
         code,res = peel(runners, modulename, fname, args, kwargs)
247
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
248
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
249
250
         code,res = peel(runners, modulename, fname, args, kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
251
252
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
253
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
254
         return None,func(*args, **kwargs)
255
     TypeError: count_row_variations() takes 2 positional arguments but 3 were given
256
     Process Process-350:
257
     Traceback (most recent call last):
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
258
259
         self.run()
260
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
261
         self._target(*self._args, **self._kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
262
263
         res=target(*args, **kwargs)
```

```
264
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
         code,res = peel(runners, modulename, fname, args, kwargs)
265
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
266
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
267
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
268
269
         code,res = peel(runners, modulename, fname, args, kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
270
         \verb|return runners[-1]| (module name, fname, args, kwargs, options, runners[:-1])| \\
271
272
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
         return None,func(*args, **kwargs)
273
     TypeError: count_row_variations() takes 2 positional arguments but 3 were given
274
275
     Process Process-351:
276
     Traceback (most recent call last):
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
277
278
         self.run()
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
279
280
         self._target(*self._args, **self._kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
281
282
         res=target(*args, **kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
283
         code,res = peel(runners, modulename, fname, args, kwargs)
284
285
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
286
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
287
288
          code,res = peel(runners, modulename, fname, args, kwargs)
289
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
290
291
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
         return None,func(*args, **kwargs)
292
293
     TypeError: count_row_variations() takes 2 positional arguments but 3 were given
294
     Process Process-352:
     Traceback (most recent call last):
295
296
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
297
         self.run()
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
298
         self._target(*self._args, **self._kwargs)
299
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
300
301
         res=target(*args, **kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
302
         code,res = peel(runners, modulename, fname, args, kwargs)
303
304
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
305
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
306
307
          code,res = peel(runners, modulename, fname, args, kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
308
309
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
310
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
         return None,func(*args, **kwargs)
311
312
     TypeError: count_row_variations() takes 2 positional arguments but 3 were given
313
     Process Process-353:
     Traceback (most recent call last):
314
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
315
316
         self.run()
317
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
         self._target(*self._args, **self._kwargs)
318
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
319
320
         res=target(*args, **kwargs)
321
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
         code,res = peel(runners, modulename, fname, args, kwargs)
322
323
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
324
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
325
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
          code,res = peel(runners, modulename, fname, args, kwargs)
326
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
327
328
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
329
         return None,func(*args, **kwargs)
330
     TypeError: count_row_variations() takes 2 positional arguments but 3 were given
```

```
Process Process-354:
332
     Traceback (most recent call last):
333
       \label{limits} File \ "/usr/lib/python3.7/multiprocessing/process.py", \ line \ 297, \ in \ \_bootstrap
334
335
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
336
         self._target(*self._args, **self._kwargs)
337
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
338
         res=target(*args, **kwargs)
339
340
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
         code,res = peel(runners, modulename, fname, args, kwargs)
341
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
342
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
343
344
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
345
         code,res = peel(runners, modulename, fname, args, kwargs)
346
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
347
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
348
         return None,func(*args, **kwargs)
349
     TypeError: count_row_variations() takes 2 positional arguments but 3 were given
350
     Process Process-596:
351
     Traceback (most recent call last):
352
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
353
354
         self.run()
355
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
356
          self._target(*self._args, **self._kwargs)
357
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
         res=target(*args, **kwargs)
358
359
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
         code,res = peel(runners, modulename, fname, args, kwargs)
360
361
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
362
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
363
364
         code,res = peel(runners, modulename, fname, args, kwargs)
365
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
366
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
367
368
         return None,func(*args, **kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 332, in count_row_variations
369
370
         return int(binom_n_k(n, k))
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 337, in binom_n_k
371
372
         return f(n) / f(k) / f(n-k)
     OverflowError: integer division result too large for a float
373
374
     Process Process-597:
     Traceback (most recent call last):
375
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
376
377
         self.run()
378
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
         self._target(*self._args, **self._kwargs)
379
380
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
381
         res=target(*args, **kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
382
         code,res = peel(runners, modulename, fname, args, kwargs)
383
384
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
385
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
386
         code,res = peel(runners, modulename, fname, args, kwargs)
387
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
388
389
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
390
391
         return None,func(*args, **kwargs)
392
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 332, in count_row_variations
393
         return int(binom_n_k(n, k))
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 337, in binom_n_k
394
395
         return f(n) / f(k) / f(n-k)
396
     OverflowError: integer division result too large for a float
397
     Process Process-598:
     Traceback (most recent call last):
398
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
```

```
400
         self.run()
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
401
         self._target(*self._args, **self._kwargs)
402
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
403
         res=target(*args, **kwargs)
404
405
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
406
         code,res = peel(runners, modulename, fname, args, kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
407
408
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
409
         code,res = peel(runners, modulename, fname, args, kwargs)
410
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
411
412
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
413
414
         return None,func(*args, **kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 332, in count_row_variations
415
416
         return int(binom_n_k(n, k))
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 337, in binom_n_k
417
         return f(n) / f(k) / f(n-k)
418
     OverflowError: integer division result too large for a float
419
     Process Process-599:
420
421
     Traceback (most recent call last):
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
422
423
         self.run()
424
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
425
         self._target(*self._args, **self._kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
426
427
         res=target(*args, **kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
428
429
         code,res = peel(runners, modulename, fname, args, kwargs)
430
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
431
432
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
433
         code,res = peel(runners, modulename, fname, args, kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
434
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
435
436
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
437
         return None, func(*args, **kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 332, in count_row_variations
438
         return int(binom n k(n, k))
439
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 337, in binom_n_k
440
         return f(n) / f(k) / f(n-k)
441
     OverflowError: integer division result too large for a float
442
     Process Process-600:
443
     Traceback (most recent call last):
444
       File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
445
446
         self.run()
       File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
447
448
         self._target(*self._args, **self._kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
449
450
         res=target(*args, **kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
451
452
         code,res = peel(runners, modulename, fname, args, kwargs)
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
453
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
454
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
455
456
          code,res = peel(runners, modulename, fname, args, kwargs)
457
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
         return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
458
459
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
460
         return None,func(*args, **kwargs)
461
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 332, in count_row_variations
462
         return int(binom n k(n, k))
       File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 337, in binom_n_k
463
464
         return f(n) / f(k) / f(n-k)
465
     OverflowError: integer division result too large for a float
     Process Process-601:
466
```

Traceback (most recent call last):

```
468
      File "/usr/lib/python3.7/multiprocessing/process.py", line 297, in _bootstrap
        self.run()
469
      File "/usr/lib/python3.7/multiprocessing/process.py", line 99, in run
470
        self._target(*self._args, **self._kwargs)
471
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/autotest.py", line 74, in wrap
472
473
        res=target(*args, **kwargs)
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 39, in import_runner
474
        code,res = peel(runners, modulename, fname, args, kwargs)
475
476
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
        return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
477
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 17, in check_args
478
        code,res = peel(runners, modulename, fname, args, kwargs)
479
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 7, in peel
480
481
        return runners[-1](modulename, fname, args, kwargs,options,runners[:-1])
482
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/lib/testrunners.py", line 12, in base_runner
        return None,func(*args, **kwargs)
483
484
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 332, in count_row_variations
        return int(binom_n_k(n, k))
485
      File "/tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/testdir/src/nonogram.py", line 337, in binom_n_k
486
        return f(n) / f(k) / f(n-k)
487
     OverflowError: integer division result too large for a float
488
489
     Thu Jun 11 09:02:14 IDT 2020
490
     Archive: /tmp/bodek.P6Pg1W/intro2cs2/ex8/ofirm57/final/submission
491
      inflating: src/nonogram.py
492
     5 passed tests out of 5 in test set named 'presubmit'.
     result_code
                 presubmit 5 1
493
     --> BEGIN TEST INFORMATION
494
495
     Test name: variations_0_0
     Module tested: nonogram
496
497
     Function call: get_row_variations([],[])
498
     Expected return value: [[]]
    More test options: {}
499
500
     --> END TEST INFORMATION
     ***********************
501
     ******
                         There is a problem:
502
     ******
                          The test named 'variations_0_0' failed.
503
     *****************
504
505
    Wrong result, input: [[], []]:
506
     expected: [[]]
     actual: None
507
508
     result code
                  variations_0_0
                                   wrong
     --> BEGIN TEST INFORMATION
509
    Test name: variations_0_1
510
     Module tested: nonogram
511
    Function call: get_row_variations([],[1])
512
513
    Expected return value: []
514
    More test options: {}
     --> END TEST INFORMATION
515
516
     ***********************************
517
     ******
                         There is a problem:
     ******
                          The test named 'variations_0_1' failed.
518
     ************************************
519
520
     Wrong result, input: [[], [1]]:
521
     expected: []
     actual: None
522
     result code
                 variations 0 1
                                           1
523
                                   wrong
     --> BEGIN TEST INFORMATION
524
     Test name: variations_0_2
525
    Module tested: nonogram
526
     Function call: get_row_variations([],[1, 2])
527
528
     Expected return value: []
529
    More test options: {}
     --> END TEST INFORMATION
530
     **************************
531
532
     ******
                          There is a problem:
533
     ******
                           The test named 'variations_0_2' failed.
     *******************
534
```

Wrong result, input: [[], [1, 2]]:

```
536
   expected: []
    actual: None
537
538
    result code
               variations_0_2
                               wrong
    --> BEGIN TEST INFORMATION
539
    Test name: variations_1_11
540
541
    Module tested: nonogram
    Function call: get_row_variations([-1],[1, 1])
    Expected return value: []
543
544
    More test options: {}
    --> END TEST INFORMATION
545
    ************************
546
    ******* There is a problem:
547
                      The test named 'variations_1_11' failed.
    ******
548
    ************************
549
550
    Wrong result, input: [[-1], [1, 1]]:
    expected: []
551
552
    actual: None
    result_code
               variations_1_11 wrong 1
553
    --> BEGIN TEST INFORMATION
554
    Test name: variations_1_2
555
    Module tested: nonogram
556
    Function call: get_row_variations([-1],[2])
557
558
    Expected return value: []
    More test options: {}
559
560
    --> END TEST INFORMATION
561
    ***********************
    ****** There is a problem:
562
563
    ******
                        The test named 'variations_1_2' failed.
    **********************
564
565
    Wrong result, input: [[-1], [2]]:
566
    expected: []
    actual: None
567
568
    result_code
               variations_1_2 wrong
                                     1
569
    35 passed tests out of 40 in test set named 'variations'.
    result code variations
                           35
570
    --> BEGIN TEST INFORMATION
571
    Test name: intersection_0
572
573
    Module tested: nonogram
    Function call: get_intersection_row([[], [], [], [], [], [], [], [], []))
    Expected return value:
575
576
    More test options: {}
577
    --> END TEST INFORMATION
    *************************
578
579
    ******* There is a problem:
    ******
                       The test named 'intersection_0' failed.
580
    ************************
581
    Test did not complete, exited with exitcode 1.
    This probably means your code caused an exception to be raised.
583
584
    result_code intersection_0 exception
                                        1
585
    12 passed tests out of 13 in test set named 'intersection'.
    result code intersection 12 1
586
587
    30 passed tests out of 30 in test set named 'solveeasy'.
588
    result_code solveeasy 30
                              1
589
    5 passed tests out of 5 in test set named 'solvehardbasic'.
    result_code solvehardbasic
                             5
     --> BEGIN TEST INFORMATION
591
592
    Test name: solvehardbonus a
    Module tested: nonogram
    Function call: solve_nonogram([[[1], [1]], [[2], [1]]])
594
595
    Expected return value: []
596
    More test options: {}
    --> END TEST INFORMATION
597
    *************************
598
                      There is a problem:
599
    ******
600
                       The test named 'solvehardbonus a' failed.
    601
    Test timed out and did not complete.
602
603 Timeout limit was 4 seconds.
```

```
You may have an infinite loop or a big inefficiency.
604
               solvehardbonus_a timeout
605
    result code
606
    --> BEGIN TEST INFORMATION
    Test name: solvehardbonus c
    Module tested: nonogram
608
    Function call: solve_nonogram([[[1, 1], [1, 1], [1, 1], [1, 1], [1, 1], [1, 1], [1, 1], [1, 1], [1, 1]])
609
    Expected return value: [[[0, 0, 1, 0, 1], [0, 1, 0, 1, 0], [1, 0, 0, 0, 0], [0, 1, 0, 0, 1], [1, 0, 0, 1, 0]], [[0, 0, 1, 0, 0, 1], [1, 0, 0, 1, 0]]
    More test options: {}
611
612
    --> END TEST INFORMATION
    *********************
613
    ******
                        There is a problem:
614
    ******
                        The test named 'solvehardbonus_c' failed.
615
616
    Wrong result, input: [[[[1, 1], [1, 1], [1], [1, 1], [1, 1]], [[1, 1], [1, 1], [1, 1], [1, 1]]]:
617
    expected: [[[0, 0, 1, 0, 1], [0, 1, 0, 1, 0], [1, 0, 0, 0, 0], [0, 1, 0, 0, 1], [1, 0, 0, 1, 0]], [[0, 0, 1, 0, 1], [0, 1, 0] actual: [[[1, 0, 1, 0, 0], [1, 0, 1, 0, 0], [1, 0, 0, 0], [1, 0, 1, 0, 0], [1, 0, 1, 0, 0]], [1, 0, 1, 0, 0], [1, 0, 1, 0, 0], [1, 0, 1, 0, 0], [1, 0, 1, 0, 0]]
618
619
    result_code
               solvehardbonus_c
                                wrong
620
     --> BEGIN TEST INFORMATION
621
    Test name: solvehardbonus_4x6
622
   Module tested: nonogram
    Function call: solve_nonogram([[[1], [2], [2], [2], [1], [1]], [[2], [2], [3]]])
624
    Expected return value: [[[1, 0, 0, 0], [1, 1, 0, 0], [0, 1, 1, 0], [0, 0, 1, 1], [0, 0, 0, 1], [0, 0, 0, 1]]]
625
626
    More test options: {}
    --> END TEST INFORMATION
627
    ***********************************
628
    ******
                      There is a problem:
629
    ******
                       The test named 'solvehardbonus 4x6' failed.
630
631
    **************************
    Wrong result, input: [[[[1], [2], [2], [1], [1]], [[2], [2], [2], [3]]]]:
632
633
    expected: [[[1, 0, 0, 0], [1, 1, 0, 0], [0, 1, 1, 0], [0, 0, 1, 1], [0, 0, 0, 1], [0, 0, 0, 1]]]
    actual: [[[1, 0, 0, 0], [1, 1, 0, 0], [1, 1, 0, 0], [1, 1, 0, 0], [1, 0, 0, 0], [0, 1, 0, 0]], [[1, 0, 0, 0], [1, 1, 0, 0]
    result_code solvehardbonus_4x6 wrong
635
    1 passed tests out of 4 in test set named 'solvehardbonus'.
636
    result_code
                solvehardbonus
637
    --> BEGIN TEST INFORMATION
638
    Test name: countbasic_88a14
639
    Module tested: nonogram
640
   641
    Expected return value: 560658857389200
    More test options: {}
643
644
    --> END TEST INFORMATION
    ************************
645
    ******
                      There is a problem:
646
                       The test named 'countbasic_88a14' failed.
    ******
647
    **************
648
    Wrong result, input: [88, [1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]]:
649
    expected: 560658857389200
    actual: 560658857389199
651
652
    result code
               countbasic 88a14
                                wrong 1
    --> BEGIN TEST INFORMATION
653
    Test name: countbasic_88a20
654
    Module tested: nonogram
656
    657
    Expected return value: 115631859759041340
    More test options: {}
    --> END TEST INFORMATION
659
660
    ***********************************
    ******
                      There is a problem:
661
    ******
                       The test named 'countbasic_88a20' failed.
662
    *************************
663
664
    665
    expected: 115631859759041340
    actual: 115631859759041344
    result code countbasic 88a20
                                wrong
667
    --> BEGIN TEST INFORMATION
668
    Test name: countbasic_88a22
670 Module tested: nonogram
```

```
672
  Expected return value: 271250494550621040
   More test options: {}
673
674
   --> END TEST INFORMATION
   ************************
   ******
                 There is a problem:
676
                The test named 'countbasic_88a22' failed.
   ******
677
678
   *************
   679
680
   expected: 271250494550621040
   actual: 271250494550621056
681
           countbasic_88a22
682
   result code
                       wrong 1
   --> BEGIN TEST INFORMATION
683
   Test name: countbasic_88a24
684
685
  Module tested: nonogram
686
   Expected return value: 397370533061665800
687
  More test options: {}
688
   --> END TEST INFORMATION
689
   *************************
690
   ******
                There is a problem:
691
   ******
                 The test named 'countbasic_88a24' failed.
692
   *************************
693
694
   695
   expected: 397370533061665800
696
   actual:
        397370533061665856
697
  result code
           countbasic 88a24
                           1
                       wrong
   --> BEGIN TEST INFORMATION
698
699
   Test name: countbasic 88a26
  Module tested: nonogram
700
701
  702
   Expected return value: 357174975294274221
  More test options: {}
703
704
   --> END TEST INFORMATION
   *************************
705
   ****** There is a problem:
706
   ******
                The test named 'countbasic_88a26' failed.
707
   ******************
708
   709
710
   expected: 357174975294274221
   actual: 357174975294274240
711
712
   result code
           countbasic 88a26
                       wrong
   --> BEGIN TEST INFORMATION
713
714
  Test name: countbasic 88a27
   Module tested: nonogram
715
  716
717
  Expected return value: 279692573246309972
718
   More test options: {}
   --> END TEST INFORMATION
719
720
   ***********************************
   ******
                There is a problem:
721
                 The test named 'countbasic_88a27' failed.
   ******
722
   ***********************
723
724
   725
   expected: 279692573246309972
   actual: 279692573246309984
726
           countbasic_88a27
   result code
                       wrong 1
727
   --> BEGIN TEST INFORMATION
728
   Test name: countbasic_88a28
  Module tested: nonogram
730
   731
   Expected return value: 191724747789809255
732
733
  More test options: {}
   --> END TEST INFORMATION
   **************************
735
736
   ******
                There is a problem:
737
   ******
                 The test named 'countbasic_88a28' failed.
   *******************
738
```

```
740
  expected: 191724747789809255
   actual: 191724747789809248
741
742
  result code
           countbasic 88a28
                       wrong
   --> BEGIN TEST INFORMATION
743
744
   Test name: countbasic 88a29
  Module tested: nonogram
745
746
  Expected return value: 114449595062769120
747
748
   More test options: {}
   --> END TEST INFORMATION
749
   *************************
750
                There is a problem:
   ******
751
                The test named 'countbasic_88a29' failed.
752
   ************************
753
754
   expected: 114449595062769120
755
   actual: 114449595062769136
756
           countbasic_88a29
757
  result code
                       wrong 1
   --> BEGIN TEST INFORMATION
758
759
  Test name: countbasic 88a32
  Module tested: nonogram
760
  761
762
   Expected return value: 9929472283517787
763
  More test options: {}
764
   --> END TEST INFORMATION
765
   *************************
   ******
                There is a problem:
766
767
   ******
                 The test named 'countbasic_88a32' failed.
768
769
  770
   expected: 9929472283517787
  actual: 9929472283517788
771
  result_code
           countbasic_88a32
                           1
772
                       wrong
   --> BEGIN TEST INFORMATION
773
774
  Test name: countbasic 88a37
775
  Module tested: nonogram
  776
777
  Expected return value: 4481381406320
778
  More test options: {}
   --> END TEST INFORMATION
779
780
   ***********************************
   ******
                 There is a problem:
781
   ******
                 The test named 'countbasic 88a37' failed.
782
   ************************************
783
   784
785
   expected: 4481381406320
786
   actual: 4481381406319
           countbasic_88a37
  result code
                       wrong
787
788
   --> BEGIN TEST INFORMATION
789
   Test name: countbasic_88a44
790
  Module tested: nonogram
  791
792
   Expected return value: 45
793
  More test options: {}
   --> END TEST INFORMATION
794
   *************************
795
796
   ******* There is a problem:
   ******
                 The test named 'countbasic_88a44' failed.
797
   *************************
798
   799
800
  expected: 45
801
  actual: 44
802
   result code
            countbasic 88a44
                       wrong
   --> BEGIN TEST INFORMATION
803
804
  Test name: countbasic 88b19
805
   Module tested: nonogram
```

806

Expected return value: 48459472266975

```
808
  More test options: {}
   --> END TEST INFORMATION
809
810
   **************************
   *****
                There is a problem:
811
   ******
                The test named 'countbasic_88b19' failed.
812
813
   **************************
   814
   expected: 48459472266975
815
816
   actual: 48459472266974
          countbasic_88b19
  result code
                      wrong 1
817
   --> BEGIN TEST INFORMATION
818
   Test name: countbasic_88b23
819
  Module tested: nonogram
820
  821
   Expected return value: 960566918220
  More test options: {}
823
   --> END TEST INFORMATION
824
   ************************
825
   ******* There is a problem:
826
   ******
                The test named 'countbasic_88b23' failed.
827
   *************************
828
   829
830
  expected: 960566918220
  actual: 960566918219
831
832
   result code
          countbasic 88b23
                      wrong 1
   --> BEGIN TEST INFORMATION
833
  Test name: countbasic 88b26
834
835
   Module tested: nonogram
  836
837
  Expected return value: 854992152
   More test options: {}
   --> END TEST INFORMATION
839
840
   ***********************************
   ****** There is a problem:
841
                The test named 'countbasic_88b26' failed.
   ******
842
   ************************
843
   844
845
  expected: 854992152
   actual: 854992151
  result code
          countbasic 88b26
                      wrong
                           1
847
848
   --> BEGIN TEST INFORMATION
  Test name: countbasic_777q00
849
  Module tested: nonogram
850
   851
   Expected return value: 35834005891733109432320066038620601894550085780
852
853
  More test options: {}
854
   --> END TEST INFORMATION
   *********************
855
               There is a problem:
856
   ******
857
   ******
                The test named 'countbasic_777q00' failed.
   ************************
858
   859
860
   expected: 35834005891733109432320066038620601894550085780
861
   actual: 35834005891733110620729197892383559226492977152
           countbasic_777q00
   result code
                      wrong
   --> BEGIN TEST INFORMATION
863
864
   Test name: countbasic 777q01
   Module tested: nonogram
865
  866
   Expected return value: 22321894314271182125864567710133284031466373729367039509295290387151922970081043849718781821741537937
867
868
  More test options: {}
   --> END TEST INFORMATION
869
   **************************
870
   ****** There is a problem:
871
   ******
872
                The test named 'countbasic_777q01' failed.
   *************************
  874
```

```
actual: 2232189431427118006610797567982352085997382532922429416586913414572652362150530694012469772995327426560
876
877
   result code
             countbasic 777q01
                           wrong
878
   --> BEGIN TEST INFORMATION
   Test name: countbasic 777q02
   Module tested: nonogram
880
   881
   882
   More test options: {}
883
884
   --> END TEST INFORMATION
   *************************
885
   ******
886
                   There is a problem:
   ******
                   The test named 'countbasic_777q02' failed.
887
888
889
   Test did not complete, exited with exitcode 1.
890
   This probably means your code caused an exception to be raised.
            countbasic_777q02
   result code
891
                         exception
   --> BEGIN TEST INFORMATION
892
   Test name: countbasic_777q03
893
894
   Module tested: nonogram
   Expected return value: 19739858210203358803336608895433104878488799563918876878752754859275970889103575155192723085920179865
896
897
   More test options: {}
898
   --> END TEST INFORMATION
   *********************
899
   ******
                   There is a problem:
900
   ******
                   The test named 'countbasic_777q03' failed.
901
   ***********************
902
903
   Test did not complete, exited with exitcode 1.
   This probably means your code caused an exception to be raised.
904
905
   result_code
            countbasic_777q03 exception 1
906
   --> BEGIN TEST INFORMATION
   Test name: countbasic_777q04
907
   Module tested: nonogram
908
   909
   910
   More test options: {}
911
   --> END TEST INFORMATION
912
913
   **************************
   ******
914
                   There is a problem:
   ******
                   The test named 'countbasic 777q04' failed.
915
916
   ***********************************
   Test did not complete, exited with exitcode 1.
917
   This probably means your code caused an exception to be raised.
918
             countbasic_777q04
                          exception
919
                                  1
   --> BEGIN TEST INFORMATION
920
921
   Test name: countbasic_777q05
   Module tested: nonogram
   923
   Expected return value: 1037295430509993457860731656593405874687127817414121867825694563261860164099516561456292694549666459
924
925
   More test options: {}
   --> END TEST INFORMATION
926
   *************************
927
928
   ******
                  There is a problem:
                   The test named 'countbasic_777q05' failed.
929
   ******
   ***********************
   Test did not complete, exited with exitcode 1.
931
932
   This probably means your code caused an exception to be raised.
            countbasic_777q05
                          exception
933
   result code
   --> BEGIN TEST INFORMATION
934
   Test name: countbasic_777q06
935
936
   Module tested: nonogram
937
   Expected return value: 55797581060390428298666170918178891812286712217362541894495764249838543342226736833351691832516480184
   More test options: {}
939
940
   --> END TEST INFORMATION
941
   *************************
   ******
                   There is a problem:
942
```

The test named 'countbasic_777q06' failed.

943

```
944
   ************************
    Test did not complete, exited with exitcode 1.
945
946
   This probably means your code caused an exception to be raised.
   result code
             countbasic_777q06
                           exception
    --> BEGIN TEST INFORMATION
948
949
   Test name: countbasic_777q07
   Module tested: nonogram
   951
952
    Expected return value: 11154550273312721218753056101915175561826016
   More test options: {}
953
    --> END TEST INFORMATION
954
    *************************
955
    ******
                    There is a problem:
956
   ******
957
                    The test named 'countbasic_777q07' failed.
958
    ************************
   Test did not complete, exited with exitcode 1.
959
   This probably means your code caused an exception to be raised.
960
             countbasic_777q07
961
    result code
                           exception
                                    1
   225 passed tests out of 247 in test set named 'countbasic'.
962
   result_code countbasic
                       225
963
                           1
    --> BEGIN TEST INFORMATION
964
965
   Test name: countbonus_a
966
   Module tested: nonogram
   967
   Expected return value: 79877235049920
968
969
   More test options: {}
    --> END TEST INFORMATION
970
971
    *************************
    ******
                   There is a problem:
972
973
   ******
                    The test named 'countbonus_a' failed.
    *************************
   Test did not complete, exited with exitcode 1.
975
976
   This probably means your code caused an exception to be raised.
   result_code
             countbonus_a
                       exception
977
    --> BEGIN TEST INFORMATION
978
   Test name: countbonus_b
979
   Module tested: nonogram
980
   981
   Expected return value: 2329752688956
   More test options: {}
983
984
   --> END TEST INFORMATION
    *************************
985
    ******
986
                    There is a problem:
    ******
                    The test named 'countbonus_b' failed.
987
988
989
   Test did not complete, exited with exitcode 1.
    This probably means your code caused an exception to be raised.
   result code
             countbonus b
                       exception
991
992
    --> BEGIN TEST INFORMATION
993
    Test name: countbonus_c
   Module tested: nonogram
994
   995
996
   Expected return value: 8586588429
997
   More test options: {}
    --> END TEST INFORMATION
998
    **************************
999
    ******* There is a problem:
1000
    ******
                    The test named 'countbonus_c' failed.
1001
    *********************
1002
    Test did not complete, exited with exitcode 1.
1003
1004
   This probably means your code caused an exception to be raised.
1005
   result code
             countbonus_c exception
    --> BEGIN TEST INFORMATION
1006
   Test name: countbonus d
1007
1008
   Module tested: nonogram
   1009
```

Expected return value: 27553350

1011 More test options: {}

```
1012
   --> END TEST INFORMATION
    *************************
1013
1014
    ****** There is a problem:
    ******
1015
                    The test named 'countbonus d' failed.
    *************************
1016
1017
    Test did not complete, exited with exitcode 1.
1018
    This probably means your code caused an exception to be raised.
    result code countbonus d
                        exception
1019
1020
    --> BEGIN TEST INFORMATION
    Test name: countbonus_e
1021
1022
    Module tested: nonogram
    1023
    Expected return value: 1
1024
1025
   More test options: {}
1026
    --> END TEST INFORMATION
    *************************
1027
    *******
                   There is a problem:
1028
    ******
                     The test named 'countbonus_e' failed.
1029
    **************************
1030
    Test did not complete, exited with exitcode 1.
1031
    This probably means your code caused an exception to be raised.
1032
1033
    result_code countbonus_e
                        exception
    --> BEGIN TEST INFORMATION
1034
1035
    Test name: countbonus f
1036
    Module tested: nonogram
1037
    Expected return value: 320739180032
1038
1039
    More test options: {}
    --> END TEST INFORMATION
1040
1041
    **********************
    ******* There is a problem:
1042
    ******
                    The test named 'countbonus_f' failed.
1043
1044
    *******************************
    Test did not complete, exited with exitcode 1.
1045
1046
    This probably means your code caused an exception to be raised.
    result_code countbonus_f
1047
                        exception
    --> BEGIN TEST INFORMATION
1048
1049
    Test name: countbonus_g
1050
   Module tested: nonogram
    1051
1052
    Expected return value: 16702340471909344
   More test options: {}
1053
    --> END TEST INFORMATION
1054
1055
    *************************
    ******
                   There is a problem:
1056
    ******
1057
                    The test named 'countbonus_g' failed.
1058
    **********************
    Test did not complete, exited with exitcode 1.
1059
1060
    This probably means your code caused an exception to be raised.
    result_code
              countbonus_g
                        exception
1061
    --> BEGIN TEST INFORMATION
1062
    Test name: countbonus_h
1063
1064
    Module tested: nonogram
    1065
    Expected return value: 16701754326450192
1066
    More test options: {}
1067
1068
    --> END TEST INFORMATION
    **********************
1069
    ******* There is a problem:
1070
    ******
                     The test named 'countbonus_h' failed.
1071
1072
    *********
1073
    Test did not complete, exited with exitcode 1.
    This probably means your code caused an exception to be raised.
1074
    result code countbonus h exception 1
1075
    --> BEGIN TEST INFORMATION
1076
1077
    Test name: countbonus_i
```

Module tested: nonogram

```
1080
   Expected return value: 32768
   More test options: {}
1081
1082
    --> END TEST INFORMATION
    ************************
1083
    ******
                    There is a problem:
1084
                    The test named 'countbonus_i' failed.
1085
    ******
1086
    *************************
    Test did not complete, exited with exitcode 1.
1087
1088
    This probably means your code caused an exception to be raised.
             countbonus_i
   result code
                       exception
1089
    --> BEGIN TEST INFORMATION
1090
    Test name: countbonus_j
1091
   Module tested: nonogram
1092
   1093
1094
    Expected return value: 0
   More test options: {}
1095
   --> END TEST INFORMATION
1096
    ***********************
1097
    ******* There is a problem:
1098
    ******
                    The test named 'countbonus_j' failed.
1099
    *************************
1100
1101
    Test did not complete, exited with exitcode 1.
1102
   This probably means your code caused an exception to be raised.
   result_code countbonus_j exception 1
1103
    {\tt 0} passed tests out of 10 in test set named 'countbonus'.
1104
1105
   result_code
             countbonus 0 1
    --> BEGIN TEST INFORMATION
1106
1107
    Test name: countfloat_88a14
   Module tested: nonogram
1108
1109
   1110
    Expected return value: 560658857389200
   More test options: {}
1111
    --> END TEST INFORMATION
1112
    ***********************
1113
    ******* There is a problem:
1114
    ******
                   The test named 'countfloat_88a14' failed.
1115
    *****************
1116
    Wrong result, input: [88, [1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]]:
1117
1118
    expected: 560658857389200
   actual: 560658857389199
1119
1120
   result code
             countfloat 88a14
                           wrong
    --> BEGIN TEST INFORMATION
1121
1122
   Test name: countfloat 88a24
    Module tested: nonogram
1123
   1124
   Expected return value: 397370533061665800
1125
1126
   More test options: {}
    --> END TEST INFORMATION
1127
1128
    ***********************************
1129
    ******
                   There is a problem:
                    The test named 'countfloat_88a24' failed.
    ******
1130
    ************************
1131
1132
    1133
   expected: 397370533061665800
    actual: 397370533061665856
1134
             countfloat_88a24
    result code
                           wrong 1
1135
    --> BEGIN TEST INFORMATION
1136
    Test name: countfloat_88a29
1137
   Module tested: nonogram
1138
    1139
1140
   Expected return value: 114449595062769120
1141
   More test options: {}
    --> END TEST INFORMATION
    **************************
1143
                   There is a problem:
1144
   ******
1145
    ******
                    The test named 'countfloat_88a29' failed.
    *******************
1146
```

```
1148
   expected: 114449595062769120
   actual: 114449595062769136
1149
1150
   result code countfloat 88a29
                       wrong
   --> BEGIN TEST INFORMATION
   Test name: countfloat_88a37
1152
1153
   Module tested: nonogram
   1154
   Expected return value: 4481381406320
1155
1156
   More test options: {}
   --> END TEST INFORMATION
1157
   *************************
1158
   ****** There is a problem:
1159
                 The test named 'countfloat_88a37' failed.
1160
   ************************
1161
1162
   expected: 4481381406320
1163
   actual: 4481381406319
1164
   result_code
           countfloat_88a37
1165
                       wrong 1
   --> BEGIN TEST INFORMATION
1166
   Test name: countfloat_88a44
   Module tested: nonogram
1168
   1169
1170
   Expected return value: 45
1171
   More test options: {}
1172
   --> END TEST INFORMATION
1173
   ***********************
   ******
                 There is a problem:
1174
1175
   ******
                 The test named 'countfloat_88a44' failed.
1176
1177
   1178
   expected: 45
   actual: 44
1179
   result_code
            countfloat_88a44
                       wrong
1180
                           1
   --> BEGIN TEST INFORMATION
1181
   Test name: countfloat_88b19
1182
   Module tested: nonogram
1183
   1184
1185
   Expected return value: 48459472266975
1186
   More test options: {}
   --> END TEST INFORMATION
1187
1188
   ***********************************
   ******
                 There is a problem:
1189
   ******
                 The test named 'countfloat 88b19' failed.
1190
   ***************************
1191
   1192
1193
   expected: 48459472266975
1194
   actual: 48459472266974
           countfloat_88b19
   result code
                       wrong
1195
1196
   --> BEGIN TEST INFORMATION
1197
   Test name: countfloat_88b23
1198
   Module tested: nonogram
   1199
1200
   Expected return value: 960566918220
1201
   More test options: {}
   --> END TEST INFORMATION
   *************************
1203
   ****** There is a problem:
1204
1205
   ******
                 The test named 'countfloat_88b23' failed.
   ************************
1206
   1207
1208
   expected: 960566918220
   actual: 960566918219
1209
            countfloat_88b23
1210
   result code
                       wrong
   --> BEGIN TEST INFORMATION
1211
1212
   Test name: countfloat 88b26
1213
   Module tested: nonogram
```

1215 Expected return value: 854992152

```
1216 More test options: {}
    --> END TEST INFORMATION
1217
1218
    **************************
    ******
                    There is a problem:
    ******
                    The test named 'countfloat_88b26' failed.
1220
    **************************
1221
    expected: 854992152
1223
1224
    actual: 854992151
             countfloat_88b26
   result code
1225
                           wrong
    --> BEGIN TEST INFORMATION
1226
1227
    Test name: countfloat 777q01
   Module tested: nonogram
1228
1229
   Expected return value: 22321894314271182125864567710133284031466373729367039509295290387151922970081043849718781821741537937
   More test options: {}
1231
    --> END TEST INFORMATION
1232
    *************************
1233
    1234
    ******
                    The test named 'countfloat_777q01' failed.
1235
    *************************
1236
    1237
   expected: 2232189431427118212586456771013328403146637372936703950929529038715192297008104384971878182174153793726
1238
   actual: 2232189431427118006610797567982352085997382532922429416586913414572652362150530694012469772995327426560
1239
             countfloat_777q01
1240
    result code
                            wrong
    --> BEGIN TEST INFORMATION
1241
1242
   Test name: countfloat 777q02
1243
    Module tested: nonogram
   1244
   Expected return value: 11806921817163751205061980854515519709895724456824263249499573351345495137287198771842218809948651538
1245
    More test options: {}
    --> END TEST INFORMATION
1247
    ***********************************
1248
    ****** There is a problem:
1249
                    The test named 'countfloat 777g02' failed.
    ******
1250
    *************************
    Test did not complete, exited with exitcode 1.
1252
1253
   This probably means your code caused an exception to be raised.
             countfloat_777q02 exception
    --> BEGIN TEST INFORMATION
1255
1256
    Test name: countfloat_777q03
    Module tested: nonogram
1257
    1258
    Expected return value: 19739858210203358803336608895433104878488799563918876878752754859275970889103575155192723085920179868
1259
   More test options: {}
1260
    --> END TEST INFORMATION
1261
    ************************
    ******* There is a problem:
1263
1264
    ******
                   The test named 'countfloat 777q03' failed.
    *************************
1265
    Test did not complete, exited with exitcode 1.
1266
    This probably means your code caused an exception to be raised.
1267
1268
    result_code
             countfloat_777q03
                           exception
1269
    --> BEGIN TEST INFORMATION
   Test name: countfloat 777q04
    Module tested: nonogram
1271
1272
   Expected return value: 65667276718109620179017075904904211802734998375051015855414100714806336215971861267780075216221686356
   More test options: {}
1274
    --> END TEST INFORMATION
1275
1276
1277
    ******
                    There is a problem:
                    The test named 'countfloat_777q04' failed.
    ******
    ***************************
1279
   Test did not complete, exited with exitcode 1.
1280
1281
    This probably means your code caused an exception to be raised.
```

result_code countfloat_777q04 exception

--> BEGIN TEST INFORMATION

```
1284
    Test name: countfloat_777q05
1285
    Module tested: nonogram
1286
    Expected return value: 10372954305099934578607316565934058746871278174141218678256945632618601640995165614562926945496664593
1288
    More test options: {}
1289
    --> END TEST INFORMATION
1290
    ************************
    ******
                    There is a problem:
1291
1292
    ******
                     The test named 'countfloat_777q05' failed.
    *************************
1293
    Test did not complete, exited with exitcode 1.
1294
    This probably means your code caused an exception to be raised.
1295
    result_code countfloat_777q05
                            exception
1296
    --> BEGIN TEST INFORMATION
1297
    Test name: countfloat_777q06
    Module tested: nonogram
1299
    Expected return value: 55797581060390428298666170918178891812286712217362541894495764249838543342226736833351691832516480184
1301
1302
    More test options: {}
    --> END TEST INFORMATION
    *************************
1304
1305
    ******* There is a problem:
    ******
1306
                     The test named 'countfloat_777q06' failed.
    ************************
1307
1308
    Test did not complete, exited with exitcode 1.
    This probably means your code caused an exception to be raised.
1309
              countfloat_777q06
1310
    result code
                             exception
1311
    --> BEGIN TEST INFORMATION
    Test name: countfloat_777q07
1312
1313
    Module tested: nonogram
1314
    Expected return value: 11154550273312721218753056101915175561826016
1315
1316
    More test options: {}
    --> END TEST INFORMATION
1317
    *************************
1318
    ******
                     There is a problem:
1319
    ******
                     The test named 'countfloat_777q07' failed.
1320
1321
    **************************
    Test did not complete, exited with exitcode 1.
1322
    This probably means your code caused an exception to be raised.
1323
1324
             countfloat_777q07 exception
    232 passed tests out of 247 in test set named 'countfloat'.
1325
              countfloat 232 1
1326
    result code
```

TESTING COMPLETED

2 nonogram.py

```
1
    # FILE : ex8.py
   # WRITER :ofir , ofirm57 , 205660731
   # EXERCISE : intro2cs2 ex8 2020
4
    import math
8
    BLACK = 1
    WHITE = 0
9
10
   UNKNOWN = -1
11
12
    def helper_get_row_variations(row, blocks, tmp_lst, row_lst, index,
13
                                first t=True):
14
        """function that return all the option of row by the block
15
        :param row: list row
16
       :param blocks: list of block
17
18
        :param tmp_lst: change list
       :param row_lst: the return list
19
       :param index: the index
20
21
        :param first_t: true if u first time entar the function
22
       length = len(row)
23
       if first_t:
24
           found_common_cases = common_cases(row, blocks)
25
26
           if found_common_cases:
27
               answer = get_intersection_row([row, found_common_cases])
               if not rows_with_unknown_check([answer]):
28
29
                   return [found_common_cases]
30
       if sum(blocks) - sum(tmp_lst) > len(row) - len(tmp_lst):
31
       if tmp_lst.count(BLACK) > sum(blocks):
33
34
           return
       if tmp_lst.count(WHITE) > length - sum(blocks):
35
36
           return
37
       if index > 1 and not row_check(tmp_lst, blocks, index, length):
38
           return
       if len(row_lst) == count_row_variations(length, blocks):
39
40
           return row_lst
       if len(tmp_lst) == length:
41
42
           if tmp_lst.count(BLACK) != sum(blocks):
43
               return
           return row_lst.append(tmp_lst)
44
45
        if row[index] == UNKNOWN:
           tmp_lst.append(BLACK)
46
47
           helper_get_row_variations(row, blocks, tmp_lst[:], row_lst, index + 1,
                                    False)
48
           tmp_lst[-1] = WHITE
49
           helper_get_row_variations(row, blocks, tmp_lst[:], row_lst, index + 1,
50
51
        else:
52
53
           tmp_lst.append(row[index])
           helper_get_row_variations(row, blocks, tmp_lst[:], row_lst, index + 1,
54
55
                                    False)
56
        return row_lst
57
58
   def common_cases(row, block):
```

```
"""recive row and block and return common_cases """
 60
 61
         row_long = len(row)
 62
         num_of_black = sum(block)
 63
         block_length = len(block)
 64
 65
         lst = []
         if num_of_black + len(block) - 1 == row_long:
 66
             for i, value in enumerate(block):
 67
 68
                 lst.extend([BLACK] * value)
                 if i != block_length - 1:
 69
                     lst.append(WHITE)
 70
 71
             return 1st
         if not block: ### zero row
 72
             return lst.extend([WHITE] * row_long)
 73
 74
         if block_length == 1 and num_of_black == row_long: ## all black
             return lst.extend([BLACK] * row_long)
 75
 76
 77
     def row_check(tmp_lst, blocks, index, lenght): # func 1
 78
         """finction that check the row by the blocks, index and lenght """
 79
         counter = 0
 80
         b_num = 0
 81
         for i, v in enumerate(tmp_lst):
 82
             if i != index - 1: # check if first
 83
                 if v == BLACK:
 84
 85
                     counter += 1
                     if tmp_lst[i + 1] == 0:
 86
 87
                         if blocks[b_num] != counter:
                            return False
 88
 89
                         else:
 90
                             counter = 0
                             b_num += 1
 91
 92
             else:
 93
                 if v == BLACK:
                     counter += 1
 94
 95
                     if blocks[b_num] != counter and not i < lenght - 1:</pre>
 96
                         return False
 97
         return True
 98
 99
100
     def get_row_variations(row, blocks): #func 1 real
          """function that return option fo row by the blocks information """
101
         return helper_get_row_variations(row, blocks, [], [], 0, True)
102
103
104
     105
106
     def make_list_of_index(rows):
107
         """function that replicates the list of lists"""
108
         lenght = len(rows[0])
109
         option_num = len(rows)
110
111
         tmp_lst = []
112
         list_of_index = []
113
         for i in range(lenght): # line
             if i != 0:
114
                 list_of_index.append(tmp_lst)
115
116
                 tmp_lst = []
             for j in range(option_num): # row external
117
                 tmp_lst.append(rows[j][i])
118
119
         {\tt list\_of\_index.append(tmp\_lst)}
         return list_of_index
120
121
122
     def get_intersection_row(rows): # func 2
123
           "" recive list of list (option for one row) and return the option for
124
125
         i choose that this func return only what is 100% right"""
126
127
         the_rows = make_list_of_index(rows)
```

```
128
         result = []
129
         for i in range(len(the_rows)):
             if all(x == the_rows[i][0] for x in the_rows[i]): ###IF ALL THE SAME
130
                 result.append(the_rows[i][0])
131
132
                 continue
             if 0 in the_rows[i] and (1 or -1) in the_rows[i]:
133
                 result.append(UNKNOWN)
134
                 continue
135
136
             result.append(UNKNOWN)
         return result
137
138
139
     140
141
142
     def solve_easy_nonogram(constraints):
         """make the firs check and then cotinue to check if it not redey"""
143
144
         bord = find_start_bord(constraints)
         return helper_func3(constraints, bord)
145
146
147
     def find_start_bord(constraints):
148
149
         A function that makes a board according to constraints Length
150
151
152
         line_num = len(constraints[1])
         row_num = len(constraints[0])
153
         first_bord = []
154
155
         for i in range(row_num):
            tmp = []
156
             tmp.extend([UNKNOWN] * line_num)
157
158
             first_bord.append(tmp)
         return first bord
159
160
161
     def helper_func3(constraints, start_bord):
162
163
         A function that takes out a resolved or partially resolved board
164
         With the help of auxiliary functions like first\_line\_solution and
165
166
         find\_start\_bord
167
168
         line_solution = first_line_solution(constraints, start_bord)
         row_solution = first_row_solution(constraints, line_solution)
169
         if row_solution == line_solution:
170
171
             return row_solution
         make_2_check_loops = 2
172
173
         while make_2_check_loops:
174
             tmp_lst = []
             for i in range(len(row_solution)):
175
176
                 end_com_result = compre_list(row_solution[i], line_solution[i])
177
                 tmp_lst.append(end_com_result)
                 if make_2_check_loops == 0:
178
179
                     return tmp_lst
180
             row_solution = first_row_solution(constraints, tmp_lst)
             line_solution = first_line_solution(constraints, row_solution)
181
             if row_solution != line_solution:
182
                 make_2_check_loops = 2
183
184
             else.
185
                 make_2_check_loops -= 1
                 if make_2_check_loops == 0:
186
187
                     break
188
         return row_solution
189
190
     def first_row_solution(constraints, list_of_rows):
191
         """A function that sends a line for review"""
192
         line_number = len(constraints[1])
193
         check_index = 0
194
195
         return check_row_and_line(check_index, constraints, line_number, [],
```

```
196
                                   list_of_rows)
197
198
     def compre_list(row_1, row_2):
199
          """ compere two list if value1 is -1 and value2 is 1 or 0 the function
200
         chage value1 to 1 or 0, the function return the number of -1 appeared in
201
          the valu1 and value2
202
         if row_1 == row_2:
203
204
             return row_2
         for i in range(len(row_1)):
205
             if row_1[i] != row_2[i]:
206
207
                 if row_1[i] == -1:
                     row_1[i] = row_2[i]
208
                 elif row_2[i] == -1:
209
                    continue
210
                 else:
211
212
                     return # if problem with the check
213
         return row 1
214
215
     def first_line_solution(constraints, start_bord):
216
         """ its make reverse and if there isnt start bord, its make one """
217
         rows_number = len(constraints[0])
218
         check_index = 1
219
         row_side_sol = make_list_of_index(start_bord)
220
221
         new_lines = check_row_and_line(check_index, constraints, rows_number,
                                        [], row_side_sol)
222
223
         line_result = make_list_of_index(new_lines)
224
         return line_result
225
226
     def check_row_and_line(index, constraints, line_number,tmp_solution,start_row):
227
228
229
         :return: posibale option for bord by check the row
230
231
         tmp_result = []
232
         for i, value in enumerate(constraints[index]):
233
             if not (bool(value)):
                 tmp_solution.append([WHITE] * line_number)
234
235
                 continue
             if len(value) == 1 and sum(value) == line_number:
236
                 tmp_solution.append([BLACK] * line_number)
237
238
                 continue
239
             else:
                 if type(start_row[0]) is list:
240
                     tmp_result = get_row_variations(start_row[i], value)
241
242
                 if not type(start_row[0]) is list:
                     tmp_result = get_row_variations([-1] * line_number, value)
243
244
                 if len(tmp_result) == 1:
245
                     tmp_solution.append(tmp_result[0])
                     continue
246
247
                 if len(tmp_result) > 1:
248
                     the_best_option = get_intersection_row(tmp_result)
249
                     tmp_solution.append(the_best_option)
250
                     tmp_solution.append([UNKNOWN] * line_number)
251
252
         return tmp_solution
253
     254
255
^{256}
     def solve_nonogram_helper4(constraints, option, simple_result, num=0,
257
                                first_enter=True):
258
        A function that solves a board with the help of possible rows inlay and if
259
260
        there are no contradictions the function takes the board out
261
         global rows_option
262
263
         if first_enter:
```

```
264
             simple_result = solve_easy_nonogram(constraints) ### solve easy
             if not rows_with_unknown_check(simple_result):
265
266
                 return [simple_result]
267
         if not simple_result:
268
269
             return
         # list of the index of rows with -1
270
         list_of_index = rows_with_unknown_check(simple_result)
271
272
         if not list_of_index:
             if option:
273
                 if check_if_results_same(option, simple_result):
274
275
276
             return option.append(simple_result)
277
         index = list_of_index[num]
278
         if list_of_index:
             rows_option = get_row_variations(simple_result[index],
279
280
                                              constraints[0][index])
281
         for j in range(len(rows_option)):
             if UNKNOWN in rows_option[j] and rows_option[j][1:] \
282
283
                     == rows_option[j][:-1]:
                 continue
284
             if rows_option[j] == simple_result[index]:
285
286
                 continue
             simple_result[index] = rows_option[j]
287
288
             simple_result = check_row_and_line(0, constraints, len(constraints[1])
                                                , [], simple_result)
289
             solve_nonogram_helper4(constraints, option, simple_result, 0, False)
290
291
             if j == len(rows_option) - 1 and index == list_of_index[-1]:
292
293
         return option
294
295
296
     def check_if_results_same(option, simple_result):
297
          """ return TRUE if same
          else return false"""
298
299
         for i in option:
             if i == simple_result:
300
                 return True
301
         return False
302
303
304
     def rows_with_unknown_check(bord):
305
          """check if the bord contain -1
306
307
         :param bord: the list of list (the bord)
         :return: [] if the bord is full'
308
          else return list with the row index who contain -1"""
309
310
         rows_with_unknown = []
         if not bord:
311
312
             return
         for i, row in enumerate(bord):
313
             if UNKNOWN in row:
314
315
                 rows_with_unknown.append(i)
316
         return rows_with_unknown
317
318
     def solve_nonogram(constraints):
319
320
         return solve_nonogram_helper4(constraints, [], [])
321
     322
323
324
325
     def count_row_variations(length, blocks):
326
         num_block = len(blocks)
         the_amount_of_black = sum(blocks)
327
         k = length - the_amount_of_black - (num_block - 1)
328
         if k < 0:
329
            return 0
330
331
         n = length - the_amount_of_black + 1
```