

unknown

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80 cord_individual_obj[indivial_i,:] = [16. 6. 65. 71.]
81 cord_individual_obj[indivial_i,:] = [17. 6. 89. 95.]
82 cord_individual_obj[indivial_i,:] = [18. 7. 66. 73.]
83 cord_individual_obj[indivial_i,:] = [19. 7. 97. 104.]
84 cord_individual_obj[indivial_i,:] = [20. 6. 79. 85.]
85 cord_individual_obj[indivial_i,:] = [21. 8. 83. 91.]
86 cord_individual_obj[indivial_i,:] = [22. 6. 94. 100.]
87 cord_individual_obj[indivial_i,:] = [23. 6. 75. 81.]
88 cord_individual_obj[indivial_i,:] = [24. 6. 97. 103.]
89
90 min(cord_individual_obj[:,3]) = 53.0
91 historl_G_best_iter[iter, 3] = 53.0
92 Begin iteration:
93
94 iter = 2
95 cord_individual_obj[indivial_i,:] = [ 0. 6. 78. 84.]
96 cord_individual_obj[indivial_i,:] = [ 1. 7. 32. 39.]
97 cord_individual_obj[indivial_i,:] = [ 2. 7. 58. 65.]
98 cord_individual_obj[indivial_i,:] = [ 3. 6. 59. 65.]
99 cord_individual_obj[indivial_i,:] = [ 4. 6. 110. 116.]
100 cord_individual_obj[indivial_i,:] = [ 5. 7. 91. 98.]
101 cord_individual_obj[indivial_i,:] = [ 6. 6. 82. 88.]
102 cord_individual_obj[indivial_i,:] = [ 7. 6. 95. 101.]
103 cord_individual_obj[indivial_i,:] = [ 8. 7. 65. 72.]
104 cord_individual_obj[indivial_i,:] = [ 9. 8. 45. 53.]
105 cord_individual_obj[indivial_i,:] = [10. 6. 62. 68.]
106 cord_individual_obj[indivial_i,:] = [11. 8. 70. 78.]
107 cord_individual_obj[indivial_i,:] = [12. 8. 79. 87.]
108 cord_individual_obj[indivial_i,:] = [13. 6. 30. 36.]
109 cord_individual_obj[indivial_i,:] = [14. 7. 109. 116.]
110 cord_individual_obj[indivial_i,:] = [15. 7. 132. 139.]
111 cord_individual_obj[indivial_i,:] = [16. 6. 79. 85.]
112 cord_individual_obj[indivial_i,:] = [17. 7. 43. 50.]
113 cord_individual_obj[indivial_i,:] = [18. 6. 87. 93.]
114 cord_individual_obj[indivial_i,:] = [19. 7. 71. 78.]
115 cord_individual_obj[indivial_i,:] = [20. 6. 55. 61.]
116 cord_individual_obj[indivial_i,:] = [21. 7. 42. 49.]
117 cord_individual_obj[indivial_i,:] = [22. 7. 99. 106.]
118 cord_individual_obj[indivial_i,:] = [23. 6. 66. 72.]
119 cord_individual_obj[indivial_i,:] = [24. 7. 77. 84.]
120
121 min(cord_individual_obj[:,3]) = 36.0
122 historl_G_best_iter[iter, 3] = 36.0
123 Begin iteration:
124
125 iter = 3
126 cord_individual_obj[indivial_i,:] = [ 0. 8. 73. 81.]
127 cord_individual_obj[indivial_i,:] = [ 1. 5. 107. 112.]
128 cord_individual_obj[indivial_i,:] = [ 2. 9. 79. 88.]
129 cord_individual_obj[indivial_i,:] = [ 3. 9. 90. 99.]
130 cord_individual_obj[indivial_i,:] = [ 4. 8. 85. 93.]
131 cord_individual_obj[indivial_i,:] = [ 5. 9. 120. 129.]
132 cord_individual_obj[indivial_i,:] = [ 6. 9. 73. 82.]
133 cord_individual_obj[indivial_i,:] = [ 7. 7. 97. 104.]
134 cord_individual_obj[indivial_i,:] = [ 8. 6. 73. 79.]
135 cord_individual_obj[indivial_i,:] = [ 9. 6. 107. 113.]
136 cord_individual_obj[indivial_i,:] = [10. 9. 117. 126.]
137 cord_individual_obj[indivial_i,:] = [11. 10. 88. 98.]
138 cord_individual_obj[indivial_i,:] = [12. 9. 117. 126.]
139 cord_individual_obj[indivial_i,:] = [13. 8. 97. 105.]
140 cord_individual_obj[indivial_i,:] = [14. 8. 76. 84.]
141 cord_individual_obj[indivial_i,:] = [15. 6. 30. 36.]
142 cord_individual_obj[indivial_i,:] = [16. 6. 40. 46.]
143 cord_individual_obj[indivial_i,:] = [17. 6. 55. 61.]
144 cord_individual_obj[indivial_i,:] = [18. 5. 113. 118.]
145 cord_individual_obj[indivial_i,:] = [19. 6. 104. 110.]
146 cord_individual_obj[indivial_i,:] = [20. 7. 166. 173.]
147 cord_individual_obj[indivial_i,:] = [21. 8. 100. 108.]
148 cord_individual_obj[indivial_i,:] = [22. 8. 105. 113.]
149 cord_individual_obj[indivial_i,:] = [23. 7. 94. 101.]
150 cord_individual_obj[indivial_i,:] = [24. 7. 76. 83.]
151
152 min(cord_individual_obj[:,3]) = 36.0
153 historl_G_best_iter[iter, 3] = 36.0
154 Begin iteration:
155
156 iter = 4
157 cord_individual_obj[indivial_i,:] = [ 0. 8. 144. 152.]
158 cord_individual_obj[indivial_i,:] = [ 1. 8. 113. 121.]
159 cord_individual_obj[indivial_i,:] = [ 2. 8. 86. 94.]
160 cord_individual_obj[indivial_i,:] = [ 3. 7. 91. 98.]
161 cord_individual_obj[indivial_i,:] = [ 4. 6. 46. 52.]
162 cord_individual_obj[indivial_i,:] = [ 5. 6. 130. 136.]
163 cord_individual_obj[indivial_i,:] = [ 6. 5. 118. 123.]

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164 cord_individual_obj[indivial_i,:] = [ 7. 7. 90. 97.]
165 cord_individual_obj[indivial_i,:] = [ 8. 7. 113. 120.]
166 cord_individual_obj[indivial_i,:] = [ 9. 7. 73. 80.]
167 cord_individual_obj[indivial_i,:] = [10. 8. 80. 88.]
168 cord_individual_obj[indivial_i,:] = [11. 7. 121. 128.]
169 cord_individual_obj[indivial_i,:] = [12. 7. 87. 94.]
170 cord_individual_obj[indivial_i,:] = [13. 6. 115. 121.]
171 cord_individual_obj[indivial_i,:] = [14. 7. 138. 145.]
172 cord_individual_obj[indivial_i,:] = [15. 6. 87. 93.]
173 cord_individual_obj[indivial_i,:] = [16. 7. 105. 112.]
174 cord_individual_obj[indivial_i,:] = [17. 6. 61. 67.]
175 cord_individual_obj[indivial_i,:] = [18. 6. 122. 128.]
176 cord_individual_obj[indivial_i,:] = [19. 7. 97. 104.]
177 cord_individual_obj[indivial_i,:] = [20. 6. 30. 36.]
178 cord_individual_obj[indivial_i,:] = [21. 7. 96. 103.]
179 cord_individual_obj[indivial_i,:] = [22. 6. 110. 116.]
180 cord_individual_obj[indivial_i,:] = [23. 8. 58. 66.]
181 cord_individual_obj[indivial_i,:] = [24. 7. 59. 66.]
182
183 min(cord_individual_obj[:,3]) = 36.0
184 historl_G_best_iter[iter,3] = 36.0
185 Begin iteration:
186
187 iter = 5
188 cord_individual_obj[indivial_i,:] = [ 0. 6. 30. 36.]
189 cord_individual_obj[indivial_i,:] = [ 1. 7. 174. 181.]
190 cord_individual_obj[indivial_i,:] = [ 2. 7. 92. 99.]
191 cord_individual_obj[indivial_i,:] = [ 3. 7. 81. 88.]
192 cord_individual_obj[indivial_i,:] = [ 4. 6. 75. 81.]
193 cord_individual_obj[indivial_i,:] = [ 5. 9. 115. 124.]
194 cord_individual_obj[indivial_i,:] = [ 6. 6. 118. 124.]
195 cord_individual_obj[indivial_i,:] = [ 7. 7. 94. 101.]
196 cord_individual_obj[indivial_i,:] = [ 8. 5. 73. 78.]
197 cord_individual_obj[indivial_i,:] = [ 9. 6. 86. 92.]
198 cord_individual_obj[indivial_i,:] = [10. 9. 77. 86.]
199 cord_individual_obj[indivial_i,:] = [11. 6. 96. 102.]
200 cord_individual_obj[indivial_i,:] = [12. 10. 111. 121.]
201 cord_individual_obj[indivial_i,:] = [13. 9. 96. 105.]
202 cord_individual_obj[indivial_i,:] = [14. 8. 75. 83.]
203 cord_individual_obj[indivial_i,:] = [15. 7. 76. 83.]
204 cord_individual_obj[indivial_i,:] = [16. 5. 87. 92.]
205 cord_individual_obj[indivial_i,:] = [17. 7. 80. 87.]
206 cord_individual_obj[indivial_i,:] = [18. 7. 77. 84.]
207 cord_individual_obj[indivial_i,:] = [19. 9. 87. 96.]
208 cord_individual_obj[indivial_i,:] = [20. 6. 113. 119.]
209 cord_individual_obj[indivial_i,:] = [21. 8. 125. 133.]
210 cord_individual_obj[indivial_i,:] = [22. 7. 93. 100.]
211 cord_individual_obj[indivial_i,:] = [23. 7. 102. 109.]
212 cord_individual_obj[indivial_i,:] = [24. 8. 59. 67.]
213
214 min(cord_individual_obj[:,3]) = 36.0
215 historl_G_best_iter[iter,3] = 36.0
216 Begin iteration:
217
218 iter = 6
219 cord_individual_obj[indivial_i,:] = [ 0. 9. 89. 98.]
220 cord_individual_obj[indivial_i,:] = [ 1. 6. 30. 36.]
221 cord_individual_obj[indivial_i,:] = [ 2. 6. 91. 97.]
222 cord_individual_obj[indivial_i,:] = [ 3. 9. 128. 137.]
223 cord_individual_obj[indivial_i,:] = [ 4. 6. 62. 68.]
224 cord_individual_obj[indivial_i,:] = [ 5. 8. 63. 71.]
225 cord_individual_obj[indivial_i,:] = [ 6. 6. 100. 106.]
226 cord_individual_obj[indivial_i,:] = [ 7. 10. 168. 178.]
227 cord_individual_obj[indivial_i,:] = [ 8. 8. 85. 93.]
228 cord_individual_obj[indivial_i,:] = [ 9. 7. 82. 89.]
229 cord_individual_obj[indivial_i,:] = [10. 9. 124. 133.]
230 cord_individual_obj[indivial_i,:] = [11. 9. 62. 71.]
231 cord_individual_obj[indivial_i,:] = [12. 7. 61. 68.]
232 cord_individual_obj[indivial_i,:] = [13. 7. 93. 100.]
233 cord_individual_obj[indivial_i,:] = [14. 6. 90. 96.]
234 cord_individual_obj[indivial_i,:] = [15. 9. 82. 91.]
235 cord_individual_obj[indivial_i,:] = [16. 8. 90. 98.]
236 cord_individual_obj[indivial_i,:] = [17. 7. 89. 96.]
237 cord_individual_obj[indivial_i,:] = [18. 5. 111. 116.]
238 cord_individual_obj[indivial_i,:] = [19. 7. 100. 107.]
239 cord_individual_obj[indivial_i,:] = [20. 6. 107. 113.]
240 cord_individual_obj[indivial_i,:] = [21. 7. 120. 127.]
241 cord_individual_obj[indivial_i,:] = [22. 8. 110. 118.]
242 cord_individual_obj[indivial_i,:] = [23. 7. 102. 109.]
243 cord_individual_obj[indivial_i,:] = [24. 7. 66. 73.]
244
245 min(cord_individual_obj[:,3]) = 36.0
246 historl_G_best_iter[iter,3] = 36.0
247 Begin iteration:

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248
249 iter = 7
250 cord_individual_obj[indivial_i, :] = [ 0.  7. 58. 65.]
251 cord_individual_obj[indivial_i, :] = [ 1.  7. 87. 94.]
252 cord_individual_obj[indivial_i, :] = [ 2.  6. 89. 95.]
253 cord_individual_obj[indivial_i, :] = [ 3.  8. 92. 100.]
254 cord_individual_obj[indivial_i, :] = [ 4.  8. 108. 116.]
255 cord_individual_obj[indivial_i, :] = [ 5.  5. 116. 121.]
256 cord_individual_obj[indivial_i, :] = [ 6.  7. 126. 133.]
257 cord_individual_obj[indivial_i, :] = [ 7.  6. 30. 36.]
258 cord_individual_obj[indivial_i, :] = [ 8.  7. 48. 55.]
259 cord_individual_obj[indivial_i, :] = [ 9.  5. 91. 96.]
260 cord_individual_obj[indivial_i, :] = [10.  7. 103. 110.]
261 cord_individual_obj[indivial_i, :] = [11.  6. 90. 96.]
262 cord_individual_obj[indivial_i, :] = [12.  7. 133. 140.]
263 cord_individual_obj[indivial_i, :] = [13.  6. 100. 106.]
264 cord_individual_obj[indivial_i, :] = [14.  5. 105. 110.]
265 cord_individual_obj[indivial_i, :] = [15.  6. 91. 97.]
266 cord_individual_obj[indivial_i, :] = [16.  7. 76. 83.]
267 cord_individual_obj[indivial_i, :] = [17.  6. 69. 75.]
268 cord_individual_obj[indivial_i, :] = [18.  7. 150. 157.]
269 cord_individual_obj[indivial_i, :] = [19.  8. 105. 113.]
270 cord_individual_obj[indivial_i, :] = [20.  7. 109. 116.]
271 cord_individual_obj[indivial_i, :] = [21.  7. 100. 107.]
272 cord_individual_obj[indivial_i, :] = [22.  7. 82. 89.]
273 cord_individual_obj[indivial_i, :] = [23.  7. 75. 82.]
274 cord_individual_obj[indivial_i, :] = [24.  8. 104. 112.]
275

276 min(cord_individual_obj[:, 3]) = 36.0
277 historl_G_best_iter[iter, 3] = 36.0
278 Begin iteration:
279
280 iter = 8
281 cord_individual_obj[indivial_i, :] = [ 0.  8. 55. 63.]
282 cord_individual_obj[indivial_i, :] = [ 1.  6. 100. 106.]
283 cord_individual_obj[indivial_i, :] = [ 2.  6. 78. 84.]
284 cord_individual_obj[indivial_i, :] = [ 3.  8. 68. 76.]
285 cord_individual_obj[indivial_i, :] = [ 4.  9. 59. 68.]
286 cord_individual_obj[indivial_i, :] = [ 5.  7. 95. 102.]
287 cord_individual_obj[indivial_i, :] = [ 6.  7. 117. 124.]
288 cord_individual_obj[indivial_i, :] = [ 7.  7. 117. 124.]
289 cord_individual_obj[indivial_i, :] = [ 8.  9. 66. 75.]
290 cord_individual_obj[indivial_i, :] = [ 9.  7. 91. 98.]
291 cord_individual_obj[indivial_i, :] = [10.  9. 135. 144.]
292 cord_individual_obj[indivial_i, :] = [11.  6. 97. 103.]
293 cord_individual_obj[indivial_i, :] = [12.  8. 137. 145.]
294 cord_individual_obj[indivial_i, :] = [13.  8. 88. 96.]
295 cord_individual_obj[indivial_i, :] = [14.  7. 79. 86.]
296 cord_individual_obj[indivial_i, :] = [15.  7. 114. 121.]
297 cord_individual_obj[indivial_i, :] = [16.  5. 82. 87.]
298 cord_individual_obj[indivial_i, :] = [17.  6. 73. 79.]
299 cord_individual_obj[indivial_i, :] = [18.  6. 30. 36.]
300 cord_individual_obj[indivial_i, :] = [19.  7. 107. 114.]
301 cord_individual_obj[indivial_i, :] = [20.  6. 111. 117.]
302 cord_individual_obj[indivial_i, :] = [21.  8. 102. 110.]
303 cord_individual_obj[indivial_i, :] = [22.  7. 119. 126.]
304 cord_individual_obj[indivial_i, :] = [23.  6. 82. 88.]
305 cord_individual_obj[indivial_i, :] = [24.  8. 71. 79.]
306

307 min(cord_individual_obj[:, 3]) = 36.0
308 historl_G_best_iter[iter, 3] = 36.0
309 Begin iteration:
310
311 iter = 9
312 cord_individual_obj[indivial_i, :] = [ 0.  7. 64. 71.]
313 cord_individual_obj[indivial_i, :] = [ 1.  8. 81. 89.]
314 cord_individual_obj[indivial_i, :] = [ 2.  7. 101. 108.]
315 cord_individual_obj[indivial_i, :] = [ 3.  7. 78. 85.]
316 cord_individual_obj[indivial_i, :] = [ 4.  8. 90. 98.]
317 cord_individual_obj[indivial_i, :] = [ 5.  7. 110. 117.]
318 cord_individual_obj[indivial_i, :] = [ 6.  7. 103. 110.]
319 cord_individual_obj[indivial_i, :] = [ 7.  7. 102. 109.]
320 cord_individual_obj[indivial_i, :] = [ 8.  9. 75. 84.]
321 cord_individual_obj[indivial_i, :] = [ 9.  8. 77. 85.]
322 cord_individual_obj[indivial_i, :] = [10.  5. 104. 109.]
323 cord_individual_obj[indivial_i, :] = [11.  8. 97. 105.]
324 cord_individual_obj[indivial_i, :] = [12.  6. 30. 36.]
325 cord_individual_obj[indivial_i, :] = [13.  6. 80. 86.]
326 cord_individual_obj[indivial_i, :] = [14.  6. 51. 57.]
327 cord_individual_obj[indivial_i, :] = [15.  6. 76. 82.]
328 cord_individual_obj[indivial_i, :] = [16.  6. 92. 98.]
329 cord_individual_obj[indivial_i, :] = [17.  8. 79. 87.]
330 cord_individual_obj[indivial_i, :] = [18.  6. 136. 142.]
331 cord_individual_obj[indivial_i, :] = [19.  7. 80. 87.]

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332 cord_individual_obj[indivial_i,:] = [20. 6. 87. 93.]
333 cord_individual_obj[indivial_i,:] = [21. 7. 106. 113.]
334 cord_individual_obj[indivial_i,:] = [22. 7. 92. 99.]
335 cord_individual_obj[indivial_i,:] = [23. 6. 73. 79.]
336 cord_individual_obj[indivial_i,:] = [24. 6. 100. 106.]
337
338 min(cord_individual_obj[:,3]) = 36.0
339 histol_G_best_iter[iter,3] = 36.0
340 Begin iteration:
341
342 iter = 10
343 cord_individual_obj[indivial_i,:] = [ 0. 7. 90. 97.]
344 cord_individual_obj[indivial_i,:] = [ 1. 5. 93. 98.]
345 cord_individual_obj[indivial_i,:] = [ 2. 7. 80. 87.]
346 cord_individual_obj[indivial_i,:] = [ 3. 7. 81. 88.]
347 cord_individual_obj[indivial_i,:] = [ 4. 8. 65. 73.]
348 cord_individual_obj[indivial_i,:] = [ 5. 7. 108. 115.]
349 cord_individual_obj[indivial_i,:] = [ 6. 5. 91. 96.]
350 cord_individual_obj[indivial_i,:] = [ 7. 9. 102. 111.]
351 cord_individual_obj[indivial_i,:] = [ 8. 5. 97. 102.]
352 cord_individual_obj[indivial_i,:] = [ 9. 5. 94. 99.]
353 cord_individual_obj[indivial_i,:] = [10. 7. 103. 110.]
354 cord_individual_obj[indivial_i,:] = [11. 11. 73. 84.]
355 cord_individual_obj[indivial_i,:] = [12. 7. 91. 98.]
356 cord_individual_obj[indivial_i,:] = [13. 8. 103. 111.]
357 cord_individual_obj[indivial_i,:] = [14. 6. 89. 95.]
358 cord_individual_obj[indivial_i,:] = [15. 6. 93. 99.]
359 cord_individual_obj[indivial_i,:] = [16. 8. 91. 99.]
360 cord_individual_obj[indivial_i,:] = [17. 7. 67. 74.]
361 cord_individual_obj[indivial_i,:] = [18. 6. 30. 36.]
362 cord_individual_obj[indivial_i,:] = [19. 7. 111. 118.]
363 cord_individual_obj[indivial_i,:] = [20. 6. 103. 109.]
364 cord_individual_obj[indivial_i,:] = [21. 8. 91. 99.]
365 cord_individual_obj[indivial_i,:] = [22. 8. 112. 120.]
366 cord_individual_obj[indivial_i,:] = [23. 6. 109. 115.]
367 cord_individual_obj[indivial_i,:] = [24. 7. 74. 81.]
368
369 min(cord_individual_obj[:,3]) = 36.0
370 histol_G_best_iter[iter,3] = 36.0
371 Begin iteration:
372
373 iter = 11
374 cord_individual_obj[indivial_i,:] = [ 0. 6. 88. 94.]
375 cord_individual_obj[indivial_i,:] = [ 1. 6. 70. 76.]
376 cord_individual_obj[indivial_i,:] = [ 2. 9. 84. 93.]
377 cord_individual_obj[indivial_i,:] = [ 3. 8. 84. 92.]
378 cord_individual_obj[indivial_i,:] = [ 4. 6. 91. 97.]
379 cord_individual_obj[indivial_i,:] = [ 5. 7. 100. 107.]
380 cord_individual_obj[indivial_i,:] = [ 6. 7. 111. 118.]
381 cord_individual_obj[indivial_i,:] = [ 7. 6. 108. 114.]
382 cord_individual_obj[indivial_i,:] = [ 8. 9. 100. 109.]
383 cord_individual_obj[indivial_i,:] = [ 9. 6. 101. 107.]
384 cord_individual_obj[indivial_i,:] = [10. 9. 80. 89.]
385 cord_individual_obj[indivial_i,:] = [11. 9. 98. 107.]
386 cord_individual_obj[indivial_i,:] = [12. 8. 100. 108.]
387 cord_individual_obj[indivial_i,:] = [13. 8. 114. 122.]
388 cord_individual_obj[indivial_i,:] = [14. 7. 65. 72.]
389 cord_individual_obj[indivial_i,:] = [15. 6. 62. 68.]
390 cord_individual_obj[indivial_i,:] = [16. 7. 103. 110.]
391 cord_individual_obj[indivial_i,:] = [17. 6. 68. 74.]
392 cord_individual_obj[indivial_i,:] = [18. 6. 70. 76.]
393 cord_individual_obj[indivial_i,:] = [19. 7. 105. 112.]
394 cord_individual_obj[indivial_i,:] = [20. 6. 112. 118.]
395 cord_individual_obj[indivial_i,:] = [21. 7. 135. 142.]
396 cord_individual_obj[indivial_i,:] = [22. 6. 30. 36.]
397 cord_individual_obj[indivial_i,:] = [23. 6. 84. 90.]
398 cord_individual_obj[indivial_i,:] = [24. 7. 59. 66.]
399
400 min(cord_individual_obj[:,3]) = 36.0
401 histol_G_best_iter[iter,3] = 36.0
402 Begin iteration:
403
404 iter = 12
405 cord_individual_obj[indivial_i,:] = [ 0. 8. 108. 116.]
406 cord_individual_obj[indivial_i,:] = [ 1. 5. 82. 87.]
407 cord_individual_obj[indivial_i,:] = [ 2. 8. 65. 73.]
408 cord_individual_obj[indivial_i,:] = [ 3. 9. 113. 122.]
409 cord_individual_obj[indivial_i,:] = [ 4. 6. 58. 64.]
410 cord_individual_obj[indivial_i,:] = [ 5. 8. 50. 58.]
411 cord_individual_obj[indivial_i,:] = [ 6. 6. 93. 99.]
412 cord_individual_obj[indivial_i,:] = [ 7. 9. 98. 107.]
413 cord_individual_obj[indivial_i,:] = [ 8. 9. 66. 75.]
414 cord_individual_obj[indivial_i,:] = [ 9. 8. 62. 70.]
415 cord_individual_obj[indivial_i,:] = [10. 6. 69. 75.]

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```

416 cord_individual_obj[indivial_i,:] = [11. 9. 51. 60.]
417 cord_individual_obj[indivial_i,:] = [12. 6. 75. 81.]
418 cord_individual_obj[indivial_i,:] = [13. 8. 99. 107.]
419 cord_individual_obj[indivial_i,:] = [14. 8. 73. 81.]
420 cord_individual_obj[indivial_i,:] = [15. 8. 100. 108.]
421 cord_individual_obj[indivial_i,:] = [16. 6. 101. 107.]
422 cord_individual_obj[indivial_i,:] = [17. 6. 76. 82.]
423 cord_individual_obj[indivial_i,:] = [18. 6. 84. 90.]
424 cord_individual_obj[indivial_i,:] = [19. 7. 71. 78.]
425 cord_individual_obj[indivial_i,:] = [20. 6. 84. 90.]
426 cord_individual_obj[indivial_i,:] = [21. 6. 30. 36.]
427 cord_individual_obj[indivial_i,:] = [22. 8. 117. 125.]
428 cord_individual_obj[indivial_i,:] = [23. 7. 56. 63.]
429 cord_individual_obj[indivial_i,:] = [24. 7. 64. 71.]
430
431 min(cord_individual_obj[:,3]) = 36.0
432 histol_G_best_iter[iter,3] = 36.0
433 Begin iteration:
434
435 iter = 13
436 cord_individual_obj[indivial_i,:] = [ 0. 6. 60. 66.]
437 cord_individual_obj[indivial_i,:] = [ 1. 6. 106. 112.]
438 cord_individual_obj[indivial_i,:] = [ 2. 7. 63. 70.]
439 cord_individual_obj[indivial_i,:] = [ 3. 6. 47. 53.]
440 cord_individual_obj[indivial_i,:] = [ 4. 6. 114. 120.]
441 cord_individual_obj[indivial_i,:] = [ 5. 8. 105. 113.]
442 cord_individual_obj[indivial_i,:] = [ 6. 7. 77. 84.]
443 cord_individual_obj[indivial_i,:] = [ 7. 6. 86. 92.]
444 cord_individual_obj[indivial_i,:] = [ 8. 7. 37. 44.]
445 cord_individual_obj[indivial_i,:] = [ 9. 6. 74. 80.]
446 cord_individual_obj[indivial_i,:] = [10. 6. 47. 53.]
447 cord_individual_obj[indivial_i,:] = [11. 8. 72. 80.]
448 cord_individual_obj[indivial_i,:] = [12. 7. 61. 68.]
449 cord_individual_obj[indivial_i,:] = [13. 7. 81. 88.]
450 cord_individual_obj[indivial_i,:] = [14. 7. 59. 66.]
451 cord_individual_obj[indivial_i,:] = [15. 6. 85. 91.]
452 cord_individual_obj[indivial_i,:] = [16. 6. 60. 66.]
453 cord_individual_obj[indivial_i,:] = [17. 6. 55. 61.]
454 cord_individual_obj[indivial_i,:] = [18. 6. 109. 115.]
455 cord_individual_obj[indivial_i,:] = [19. 6. 79. 85.]
456 cord_individual_obj[indivial_i,:] = [20. 6. 120. 126.]
457 cord_individual_obj[indivial_i,:] = [21. 8. 111. 119.]
458 cord_individual_obj[indivial_i,:] = [22. 6. 30. 36.]
459 cord_individual_obj[indivial_i,:] = [23. 8. 48. 56.]
460 cord_individual_obj[indivial_i,:] = [24. 8. 93. 101.]
461
462 min(cord_individual_obj[:,3]) = 36.0
463 histol_G_best_iter[iter,3] = 36.0
464 Begin iteration:
465
466 iter = 14
467 cord_individual_obj[indivial_i,:] = [ 0. 6. 108. 114.]
468 cord_individual_obj[indivial_i,:] = [ 1. 7. 110. 117.]
469 cord_individual_obj[indivial_i,:] = [ 2. 10. 103. 113.]
470 cord_individual_obj[indivial_i,:] = [ 3. 10. 77. 87.]
471 cord_individual_obj[indivial_i,:] = [ 4. 9. 123. 132.]
472 cord_individual_obj[indivial_i,:] = [ 5. 9. 89. 98.]
473 cord_individual_obj[indivial_i,:] = [ 6. 6. 106. 112.]
474 cord_individual_obj[indivial_i,:] = [ 7. 6. 115. 121.]
475 cord_individual_obj[indivial_i,:] = [ 8. 7. 107. 114.]
476 cord_individual_obj[indivial_i,:] = [ 9. 7. 79. 86.]
477 cord_individual_obj[indivial_i,:] = [10. 10. 125. 135.]
478 cord_individual_obj[indivial_i,:] = [11. 8. 70. 78.]
479 cord_individual_obj[indivial_i,:] = [12. 6. 67. 73.]
480 cord_individual_obj[indivial_i,:] = [13. 8. 104. 112.]
481 cord_individual_obj[indivial_i,:] = [14. 5. 126. 131.]
482 cord_individual_obj[indivial_i,:] = [15. 8. 157. 165.]
483 cord_individual_obj[indivial_i,:] = [16. 6. 121. 127.]
484 cord_individual_obj[indivial_i,:] = [17. 9. 85. 94.]
485 cord_individual_obj[indivial_i,:] = [18. 7. 98. 105.]
486 cord_individual_obj[indivial_i,:] = [19. 7. 115. 122.]
487 cord_individual_obj[indivial_i,:] = [20. 6. 30. 36.]
488 cord_individual_obj[indivial_i,:] = [21. 8. 78. 86.]
489 cord_individual_obj[indivial_i,:] = [22. 7. 123. 130.]
490 cord_individual_obj[indivial_i,:] = [23. 6. 91. 97.]
491 cord_individual_obj[indivial_i,:] = [24. 8. 112. 120.]
492
493 min(cord_individual_obj[:,3]) = 36.0
494 histol_G_best_iter[iter,3] = 36.0
495 Begin iteration:
496
497 iter = 15
498 cord_individual_obj[indivial_i,:] = [ 0. 9. 69. 78.]
499 cord_individual_obj[indivial_i,:] = [ 1. 6. 107. 113.]

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500 cord_individual_obj[indivial_i,:] = [ 2. 6. 63. 69.]
501 cord_individual_obj[indivial_i,:] = [ 3. 7. 95. 102.]
502 cord_individual_obj[indivial_i,:] = [ 4. 7. 67. 74.]
503 cord_individual_obj[indivial_i,:] = [ 5. 8. 34. 42.]
504 cord_individual_obj[indivial_i,:] = [ 6. 6. 94. 100.]
505 cord_individual_obj[indivial_i,:] = [ 7. 7. 111. 118.]
506 cord_individual_obj[indivial_i,:] = [ 8. 6. 114. 120.]
507 cord_individual_obj[indivial_i,:] = [ 9. 7. 49. 56.]
508 cord_individual_obj[indivial_i,:] = [10. 7. 80. 87.]
509 cord_individual_obj[indivial_i,:] = [11. 10. 60. 70.]
510 cord_individual_obj[indivial_i,:] = [12. 6. 65. 71.]
511 cord_individual_obj[indivial_i,:] = [13. 7. 55. 62.]
512 cord_individual_obj[indivial_i,:] = [14. 6. 74. 80.]
513 cord_individual_obj[indivial_i,:] = [15. 6. 30. 36.]
514 cord_individual_obj[indivial_i,:] = [16. 6. 82. 88.]
515 cord_individual_obj[indivial_i,:] = [17. 8. 61. 69.]
516 cord_individual_obj[indivial_i,:] = [18. 7. 103. 110.]
517 cord_individual_obj[indivial_i,:] = [19. 7. 51. 58.]
518 cord_individual_obj[indivial_i,:] = [20. 6. 111. 117.]
519 cord_individual_obj[indivial_i,:] = [21. 8. 82. 90.]
520 cord_individual_obj[indivial_i,:] = [22. 7. 98. 105.]
521 cord_individual_obj[indivial_i,:] = [23. 6. 49. 55.]
522 cord_individual_obj[indivial_i,:] = [24. 10. 57. 67.]
523
524 min(cord_individual_obj[:, 3]) = 36.0
525 histol_G_best_iter[iter, 3] = 36.0
526 Begin iteration:
527
528 iter = 16
529 cord_individual_obj[indivial_i,:] = [ 0. 6. 96. 102.]
530 cord_individual_obj[indivial_i,:] = [ 1. 5. 87. 92.]
531 cord_individual_obj[indivial_i,:] = [ 2. 7. 79. 86.]
532 cord_individual_obj[indivial_i,:] = [ 3. 6. 123. 129.]
533 cord_individual_obj[indivial_i,:] = [ 4. 8. 78. 86.]
534 cord_individual_obj[indivial_i,:] = [ 5. 9. 68. 77.]
535 cord_individual_obj[indivial_i,:] = [ 6. 7. 58. 65.]
536 cord_individual_obj[indivial_i,:] = [ 7. 7. 56. 63.]
537 cord_individual_obj[indivial_i,:] = [ 8. 6. 30. 36.]
538 cord_individual_obj[indivial_i,:] = [ 9. 7. 78. 85.]
539 cord_individual_obj[indivial_i,:] = [10. 6. 98. 104.]
540 cord_individual_obj[indivial_i,:] = [11. 8. 94. 102.]
541 cord_individual_obj[indivial_i,:] = [12. 7. 169. 176.]
542 cord_individual_obj[indivial_i,:] = [13. 7. 89. 96.]
543 cord_individual_obj[indivial_i,:] = [14. 7. 65. 72.]
544 cord_individual_obj[indivial_i,:] = [15. 7. 81. 88.]
545 cord_individual_obj[indivial_i,:] = [16. 6. 68. 74.]
546 cord_individual_obj[indivial_i,:] = [17. 10. 89. 99.]
547 cord_individual_obj[indivial_i,:] = [18. 7. 86. 93.]
548 cord_individual_obj[indivial_i,:] = [19. 10. 62. 72.]
549 cord_individual_obj[indivial_i,:] = [20. 6. 40. 46.]
550 cord_individual_obj[indivial_i,:] = [21. 8. 113. 121.]
551 cord_individual_obj[indivial_i,:] = [22. 7. 78. 85.]
552 cord_individual_obj[indivial_i,:] = [23. 9. 65. 74.]
553 cord_individual_obj[indivial_i,:] = [24. 6. 59. 65.]
554
555 min(cord_individual_obj[:, 3]) = 36.0
556 histol_G_best_iter[iter, 3] = 36.0
557 Begin iteration:
558
559 iter = 17
560 cord_individual_obj[indivial_i,:] = [ 0. 7. 70. 77.]
561 cord_individual_obj[indivial_i,:] = [ 1. 7. 108. 115.]
562 cord_individual_obj[indivial_i,:] = [ 2. 7. 90. 97.]
563 cord_individual_obj[indivial_i,:] = [ 3. 7. 78. 85.]
564 cord_individual_obj[indivial_i,:] = [ 4. 9. 95. 104.]
565 cord_individual_obj[indivial_i,:] = [ 5. 9. 80. 89.]
566 cord_individual_obj[indivial_i,:] = [ 6. 6. 101. 107.]
567 cord_individual_obj[indivial_i,:] = [ 7. 8. 133. 141.]
568 cord_individual_obj[indivial_i,:] = [ 8. 7. 87. 94.]
569 cord_individual_obj[indivial_i,:] = [ 9. 6. 97. 103.]
570 cord_individual_obj[indivial_i,:] = [10. 7. 98. 105.]
571 cord_individual_obj[indivial_i,:] = [11. 7. 83. 90.]
572 cord_individual_obj[indivial_i,:] = [12. 6. 30. 36.]
573 cord_individual_obj[indivial_i,:] = [13. 6. 129. 135.]
574 cord_individual_obj[indivial_i,:] = [14. 8. 106. 114.]
575 cord_individual_obj[indivial_i,:] = [15. 7. 122. 129.]
576 cord_individual_obj[indivial_i,:] = [16. 5. 99. 104.]
577 cord_individual_obj[indivial_i,:] = [17. 7. 96. 103.]
578 cord_individual_obj[indivial_i,:] = [18. 7. 61. 68.]
579 cord_individual_obj[indivial_i,:] = [19. 6. 91. 97.]
580 cord_individual_obj[indivial_i,:] = [20. 7. 100. 107.]
581 cord_individual_obj[indivial_i,:] = [21. 7. 68. 75.]
582 cord_individual_obj[indivial_i,:] = [22. 8. 169. 177.]
583 cord_individual_obj[indivial_i,:] = [23. 9. 92. 101.]

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unknown

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584     cord_individual_obj[indivial_i, :] = [ 24.  8. 93. 101.]
585
586     min(cord_individual_obj[:, 3]) = 36.0
587     historl_G_best_iter[iter, 3] = 36.0
588 Begin iteration:
589
590 iter = 18
591     cord_individual_obj[indivial_i, :] = [ 0.  6. 53. 59.]
592     cord_individual_obj[indivial_i, :] = [ 1.  5. 85. 90.]
593     cord_individual_obj[indivial_i, :] = [ 2.  9. 46. 55.]
594     cord_individual_obj[indivial_i, :] = [ 3.  8. 61. 69.]
595     cord_individual_obj[indivial_i, :] = [ 4.  6. 57. 63.]
596     cord_individual_obj[indivial_i, :] = [ 5.  8. 81. 89.]
597     cord_individual_obj[indivial_i, :] = [ 6.  6. 93. 99.]
598     cord_individual_obj[indivial_i, :] = [ 7.  7. 43. 50.]
599     cord_individual_obj[indivial_i, :] = [ 8.  7. 65. 72.]
600     cord_individual_obj[indivial_i, :] = [ 9.  8. 76. 84.]
601     cord_individual_obj[indivial_i, :] = [10.  6. 69. 75.]
602     cord_individual_obj[indivial_i, :] = [11.  8. 116. 124.]
603     cord_individual_obj[indivial_i, :] = [12.  8. 138. 146.]
604     cord_individual_obj[indivial_i, :] = [13.  7. 42. 49.]
605     cord_individual_obj[indivial_i, :] = [14.  5. 68. 73.]
606     cord_individual_obj[indivial_i, :] = [15.  7. 61. 68.]
607     cord_individual_obj[indivial_i, :] = [16.  7. 34. 41.]
608     cord_individual_obj[indivial_i, :] = [17.  8. 33. 41.]
609     cord_individual_obj[indivial_i, :] = [18.  5. 78. 83.]
610     cord_individual_obj[indivial_i, :] = [19.  8. 157. 165.]
611     cord_individual_obj[indivial_i, :] = [20.  6. 141. 147.]
612     cord_individual_obj[indivial_i, :] = [21.  8. 114. 122.]
613     cord_individual_obj[indivial_i, :] = [22.  6. 30. 36.]
614     cord_individual_obj[indivial_i, :] = [23.  7. 109. 116.]
615     cord_individual_obj[indivial_i, :] = [24.  7. 32. 39.]
616
617     min(cord_individual_obj[:, 3]) = 36.0
618     historl_G_best_iter[iter, 3] = 36.0
619 Begin iteration:
620
621 iter = 19
622     cord_individual_obj[indivial_i, :] = [ 0.  7. 67. 74.]
623     cord_individual_obj[indivial_i, :] = [ 1.  6. 104. 110.]
624     cord_individual_obj[indivial_i, :] = [ 2.  6. 128. 134.]
625     cord_individual_obj[indivial_i, :] = [ 3.  6. 90. 96.]
626     cord_individual_obj[indivial_i, :] = [ 4.  7. 101. 108.]
627     cord_individual_obj[indivial_i, :] = [ 5.  8. 43. 51.]
628     cord_individual_obj[indivial_i, :] = [ 6.  7. 86. 93.]
629     cord_individual_obj[indivial_i, :] = [ 7.  7. 100. 107.]
630     cord_individual_obj[indivial_i, :] = [ 8.  6. 55. 61.]
631     cord_individual_obj[indivial_i, :] = [ 9.  8. 89. 97.]
632     cord_individual_obj[indivial_i, :] = [10.  8. 86. 94.]
633     cord_individual_obj[indivial_i, :] = [11.  9. 53. 62.]
634     cord_individual_obj[indivial_i, :] = [12.  8. 98. 106.]
635     cord_individual_obj[indivial_i, :] = [13.  7. 76. 83.]
636     cord_individual_obj[indivial_i, :] = [14.  7. 62. 69.]
637     cord_individual_obj[indivial_i, :] = [15.  6. 61. 67.]
638     cord_individual_obj[indivial_i, :] = [16.  6. 56. 62.]
639     cord_individual_obj[indivial_i, :] = [17.  8. 119. 127.]
640     cord_individual_obj[indivial_i, :] = [18.  6. 110. 116.]
641     cord_individual_obj[indivial_i, :] = [19.  6. 30. 36.]
642     cord_individual_obj[indivial_i, :] = [20.  6. 79. 85.]
643     cord_individual_obj[indivial_i, :] = [21.  7. 104. 111.]
644     cord_individual_obj[indivial_i, :] = [22.  8. 123. 131.]
645     cord_individual_obj[indivial_i, :] = [23.  8. 121. 129.]
646     cord_individual_obj[indivial_i, :] = [24.  7. 82. 89.]
647
648     min(cord_individual_obj[:, 3]) = 36.0
649     historl_G_best_iter[iter, 3] = 36.0
650 Begin iteration:
651
652 iter = 20
653     cord_individual_obj[indivial_i, :] = [ 0.  6. 106. 112.]
654     cord_individual_obj[indivial_i, :] = [ 1.  7. 83. 90.]
655     cord_individual_obj[indivial_i, :] = [ 2.  6. 30. 36.]
656     cord_individual_obj[indivial_i, :] = [ 3.  9. 118. 127.]
657     cord_individual_obj[indivial_i, :] = [ 4.  6. 103. 109.]
658     cord_individual_obj[indivial_i, :] = [ 5.  7. 70. 77.]
659     cord_individual_obj[indivial_i, :] = [ 6.  6. 95. 101.]
660     cord_individual_obj[indivial_i, :] = [ 7.  8. 87. 95.]
661     cord_individual_obj[indivial_i, :] = [ 8.  6. 121. 127.]
662     cord_individual_obj[indivial_i, :] = [ 9.  7. 81. 88.]
663     cord_individual_obj[indivial_i, :] = [10.  8. 119. 127.]
664     cord_individual_obj[indivial_i, :] = [11. 10. 85. 95.]
665     cord_individual_obj[indivial_i, :] = [12.  8. 136. 144.]
666     cord_individual_obj[indivial_i, :] = [13.  8. 162. 170.]
667     cord_individual_obj[indivial_i, :] = [14.  7. 79. 86.]
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668 cord_individual_obj[indivial_i,:] = [ 15. 9. 95. 104.]
669 cord_individual_obj[indivial_i,:] = [ 16. 6. 121. 127.]
670 cord_individual_obj[indivial_i,:] = [ 17. 9. 103. 112.]
671 cord_individual_obj[indivial_i,:] = [ 18. 7. 77. 84.]
672 cord_individual_obj[indivial_i,:] = [ 19. 8. 122. 130.]
673 cord_individual_obj[indivial_i,:] = [ 20. 6. 108. 114.]
674 cord_individual_obj[indivial_i,:] = [ 21. 6. 65. 71.]
675 cord_individual_obj[indivial_i,:] = [ 22. 6. 75. 81.]
676 cord_individual_obj[indivial_i,:] = [ 23. 7. 93. 100.]
677 cord_individual_obj[indivial_i,:] = [ 24. 8. 113. 121.]
678
679 min(cord_individual_obj[:, 3]) = 36.0
680 historl_G_best_iter[iter, 3] = 36.0
681 Iteration calculate over
682
683
684
685
686 All item are in Bin and:
687 Bin area = 1080
688 Real_area = 174.0
689 Proportion_of_area = 0.1611111111111112
690 BEST_CHROM =
691 berth: [22.5 4.5 2. 7. 17. 4. 12. 3.5 13. 22.5 23.5 14.5 23.5]
692 time: [5. 2. 0. 0. 3. 4. 3. 5. 2. 4. 1. 0. 0.]
693 num_QC: [3. 3. 4. 4. 2. 3. 2. 5. 4. 3. 2. 2. 4.]
694 Objective function values and some other indicators:
695 Obj0 = 6.00 Obj1 = 30.00 Obj0 + Obj1 = 36.00
696 Total movement of crane: 0.00
697 Total waiting time in berth position: 29.00
698 Total index of q during berthing: 538.00
699 Specific arrangement for each vessel:
700 V_id: 0 li: 7.0 xi: 22.5 bow of i: 19.0 tail of i: 26.0 gama_i0: 5.0 gama_i1: 6
.0 gama_i1 + 1: 7.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 80.0 work
load_i: 80.0 work load gap_i: 0
701 V_id: 1 li: 9.0 xi: 4.5 bow of i: 0.0 tail of i: 9.0 gama_i0: 2.0 gama_i1: 3.0
100.0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 100.0 work load_i:
work load gap_i: 0
702 V_id: 2 li: 4.0 xi: 2.0 bow of i: 0.0 tail of i: 4.0 gama_i0: 0.0 gama_i1: 1.0
160.0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 160.0 work load_i:
work load gap_i: 0
703 V_id: 3 li: 6.0 xi: 7.0 bow of i: 4.0 tail of i: 10.0 gama_i0: 0.0 gama_i1: 0.0
80.0 gama_i1 + 1: 1.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 80.0 work load_i:
work load gap_i: 0
704 V_id: 4 li: 4.0 xi: 17.0 bow of i: 15.0 tail of i: 19.0 gama_i0: 3.0 gama_i1: 5
.0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 100.0 work
load_i: 100.0 work load gap_i: 0
705 V_id: 5 li: 8.0 xi: 4.0 bow of i: 0.0 tail of i: 8.0 gama_i0: 4.0 gama_i1: 4.0
60.0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 60.0 work load_i:
work load gap_i: 0
706 V_id: 6 li: 6.0 xi: 12.0 bow of i: 9.0 tail of i: 15.0 gama_i0: 3.0 gama_i1: 4
.0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 60.0 work
load_i: 60.0 work load gap_i: 0
707 V_id: 7 li: 7.0 xi: 3.5 bow of i: 0.0 tail of i: 7.0 gama_i0: 5.0 gama_i1: 6.0
160.0 gama_i1 + 1: 7.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 160.0 work load_i:
work load gap_i: 0
708 V_id: 8 li: 8.0 xi: 13.0 bow of i: 9.0 tail of i: 17.0 gama_i0: 2.0 gama_i1: 2
.0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 60.0 work
load_i: 60.0 work load gap_i: 0
709 V_id: 9 li: 7.0 xi: 22.5 bow of i: 19.0 tail of i: 26.0 gama_i0: 4.0 gama_i1: 4
.0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 60.0 work
load_i: 60.0 work load gap_i: 0
710 V_id: 10 li: 9.0 xi: 23.5 bow of i: 19.0 tail of i: 28.0 gama_i0: 1.0 gama_i1: 1
.0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 100.0 work
load_i: 100.0 work load gap_i: 0
711 V_id: 11 li: 9.0 xi: 14.5 bow of i: 10.0 tail of i: 19.0 gama_i0: 0.0 gama_i1: 0
1.0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 60.0 work
load_i: 60.0 work load gap_i: 0
712 V_id: 12 li: 9.0 xi: 23.5 bow of i: 19.0 tail of i: 28.0 gama_i0: 0.0 gama_i1: 0
.0 gama_i1 + 1: 1.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 80.0 work
load_i: 80.0 work load gap_i: 0
713
714 Algorithm finished and the total CPU time: 346 s
715 End
716

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