

unknown

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80 cord_individual_obj[indivial_i,:] = [ 16. 8. 122. 130.]
81 cord_individual_obj[indivial_i,:] = [ 17. 8. 151. 159.]
82 cord_individual_obj[indivial_i,:] = [18. 8. 87. 95.]
83 cord_individual_obj[indivial_i,:] = [19. 9. 135. 144.]
84 cord_individual_obj[indivial_i,:] = [20. 8. 83. 91.]
85 cord_individual_obj[indivial_i,:] = [21. 8. 153. 161.]
86 cord_individual_obj[indivial_i,:] = [22. 8. 140. 148.]
87 cord_individual_obj[indivial_i,:] = [23. 8. 166. 174.]
88 cord_individual_obj[indivial_i,:] = [24. 8. 164. 172.]
89
90 min(cord_individual_obj[:,3]) = 72.0
91 historl_G_best_iter[iter, 3] = 72.0
92 Begin iteration:
93
94 iter = 2
95 cord_individual_obj[indivial_i,:] = [ 0. 9. 115. 124.]
96 cord_individual_obj[indivial_i,:] = [ 1. 8. 81. 89.]
97 cord_individual_obj[indivial_i,:] = [ 2. 7. 118. 125.]
98 cord_individual_obj[indivial_i,:] = [ 3. 9. 134. 143.]
99 cord_individual_obj[indivial_i,:] = [ 4. 6. 86. 92.]
100 cord_individual_obj[indivial_i,:] = [ 5. 8. 59. 67.]
101 cord_individual_obj[indivial_i,:] = [ 6. 9. 104. 113.]
102 cord_individual_obj[indivial_i,:] = [ 7. 9. 117. 126.]
103 cord_individual_obj[indivial_i,:] = [ 8. 8. 133. 141.]
104 cord_individual_obj[indivial_i,:] = [ 9. 8. 107. 115.]
105 cord_individual_obj[indivial_i,:] = [10. 8. 99. 107.]
106 cord_individual_obj[indivial_i,:] = [11. 8. 101. 109.]
107 cord_individual_obj[indivial_i,:] = [12. 8. 101. 109.]
108 cord_individual_obj[indivial_i,:] = [13. 7. 121. 128.]
109 cord_individual_obj[indivial_i,:] = [14. 8. 106. 114.]
110 cord_individual_obj[indivial_i,:] = [15. 8. 153. 161.]
111 cord_individual_obj[indivial_i,:] = [16. 8. 103. 111.]
112 cord_individual_obj[indivial_i,:] = [17. 7. 95. 102.]
113 cord_individual_obj[indivial_i,:] = [18. 9. 84. 93.]
114 cord_individual_obj[indivial_i,:] = [19. 8. 141. 149.]
115 cord_individual_obj[indivial_i,:] = [20. 7. 93. 100.]
116 cord_individual_obj[indivial_i,:] = [21. 9. 91. 100.]
117 cord_individual_obj[indivial_i,:] = [22. 9. 96. 105.]
118 cord_individual_obj[indivial_i,:] = [23. 8. 64. 72.]
119 cord_individual_obj[indivial_i,:] = [24. 8. 77. 85.]
120
121 min(cord_individual_obj[:,3]) = 67.0
122 historl_G_best_iter[iter, 3] = 67.0
123 Begin iteration:
124
125 iter = 3
126 cord_individual_obj[indivial_i,:] = [ 0. 7. 98. 105.]
127 cord_individual_obj[indivial_i,:] = [ 1. 9. 56. 65.]
128 cord_individual_obj[indivial_i,:] = [ 2. 9. 91. 100.]
129 cord_individual_obj[indivial_i,:] = [ 3. 9. 84. 93.]
130 cord_individual_obj[indivial_i,:] = [ 4. 8. 107. 115.]
131 cord_individual_obj[indivial_i,:] = [ 5. 8. 80. 88.]
132 cord_individual_obj[indivial_i,:] = [ 6. 9. 77. 86.]
133 cord_individual_obj[indivial_i,:] = [ 7. 8. 67. 75.]
134 cord_individual_obj[indivial_i,:] = [ 8. 8. 50. 58.]
135 cord_individual_obj[indivial_i,:] = [ 9. 9. 68. 77.]
136 cord_individual_obj[indivial_i,:] = [10. 8. 86. 94.]
137 cord_individual_obj[indivial_i,:] = [11. 8. 102. 110.]
138 cord_individual_obj[indivial_i,:] = [12. 9. 84. 93.]
139 cord_individual_obj[indivial_i,:] = [13. 8. 67. 75.]
140 cord_individual_obj[indivial_i,:] = [14. 10. 76. 86.]
141 cord_individual_obj[indivial_i,:] = [15. 8. 59. 67.]
142 cord_individual_obj[indivial_i,:] = [16. 8. 81. 89.]
143 cord_individual_obj[indivial_i,:] = [17. 8. 98. 106.]
144 cord_individual_obj[indivial_i,:] = [18. 9. 124. 133.]
145 cord_individual_obj[indivial_i,:] = [19. 9. 66. 75.]
146 cord_individual_obj[indivial_i,:] = [20. 10. 106. 116.]
147 cord_individual_obj[indivial_i,:] = [21. 7. 59. 66.]
148 cord_individual_obj[indivial_i,:] = [22. 6. 124. 130.]
149 cord_individual_obj[indivial_i,:] = [23. 9. 122. 131.]
150 cord_individual_obj[indivial_i,:] = [24. 8. 63. 71.]
151
152 min(cord_individual_obj[:,3]) = 58.0
153 historl_G_best_iter[iter, 3] = 58.0
154 Begin iteration:
155
156 iter = 4
157 cord_individual_obj[indivial_i,:] = [ 0. 8. 108. 116.]
158 cord_individual_obj[indivial_i,:] = [ 1. 9. 126. 135.]
159 cord_individual_obj[indivial_i,:] = [ 2. 8. 104. 112.]
160 cord_individual_obj[indivial_i,:] = [ 3. 10. 129. 139.]
161 cord_individual_obj[indivial_i,:] = [ 4. 8. 173. 181.]
162 cord_individual_obj[indivial_i,:] = [ 5. 8. 72. 80.]
163 cord_individual_obj[indivial_i,:] = [ 6. 9. 71. 80.]

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164 cord_individual_obj[indivial_i,:] = [ 7. 10. 105. 115.]
165 cord_individual_obj[indivial_i,:] = [ 8. 8. 88. 96.]
166 cord_individual_obj[indivial_i,:] = [ 9. 9. 117. 126.]
167 cord_individual_obj[indivial_i,:] = [10. 9. 94. 103.]
168 cord_individual_obj[indivial_i,:] = [11. 7. 131. 138.]
169 cord_individual_obj[indivial_i,:] = [12. 8. 81. 89.]
170 cord_individual_obj[indivial_i,:] = [13. 9. 68. 77.]
171 cord_individual_obj[indivial_i,:] = [14. 9. 116. 125.]
172 cord_individual_obj[indivial_i,:] = [15. 9. 147. 156.]
173 cord_individual_obj[indivial_i,:] = [16. 8. 64. 72.]
174 cord_individual_obj[indivial_i,:] = [17. 8. 85. 93.]
175 cord_individual_obj[indivial_i,:] = [18. 8. 50. 58.]
176 cord_individual_obj[indivial_i,:] = [19. 8. 90. 98.]
177 cord_individual_obj[indivial_i,:] = [20. 9. 67. 76.]
178 cord_individual_obj[indivial_i,:] = [21. 8. 86. 94.]
179 cord_individual_obj[indivial_i,:] = [22. 9. 78. 87.]
180 cord_individual_obj[indivial_i,:] = [23. 10. 119. 129.]
181 cord_individual_obj[indivial_i,:] = [24. 9. 87. 96.]
182
183 min(cord_individual_obj[:,3]) = 58.0
184 historl_G_best_iter[iter,3] = 58.0
185 Begin iteration:
186
187 iter = 5
188 cord_individual_obj[indivial_i,:] = [ 0. 9. 135. 144.]
189 cord_individual_obj[indivial_i,:] = [ 1. 9. 117. 126.]
190 cord_individual_obj[indivial_i,:] = [ 2. 9. 98. 107.]
191 cord_individual_obj[indivial_i,:] = [ 3. 8. 96. 104.]
192 cord_individual_obj[indivial_i,:] = [ 4. 8. 50. 58.]
193 cord_individual_obj[indivial_i,:] = [ 5. 8. 111. 119.]
194 cord_individual_obj[indivial_i,:] = [ 6. 8. 109. 117.]
195 cord_individual_obj[indivial_i,:] = [ 7. 9. 70. 79.]
196 cord_individual_obj[indivial_i,:] = [ 8. 7. 100. 107.]
197 cord_individual_obj[indivial_i,:] = [ 9. 9. 94. 103.]
198 cord_individual_obj[indivial_i,:] = [10. 8. 120. 128.]
199 cord_individual_obj[indivial_i,:] = [11. 9. 89. 98.]
200 cord_individual_obj[indivial_i,:] = [12. 8. 70. 78.]
201 cord_individual_obj[indivial_i,:] = [13. 10. 95. 105.]
202 cord_individual_obj[indivial_i,:] = [14. 9. 75. 84.]
203 cord_individual_obj[indivial_i,:] = [15. 9. 129. 138.]
204 cord_individual_obj[indivial_i,:] = [16. 9. 157. 166.]
205 cord_individual_obj[indivial_i,:] = [17. 7. 103. 110.]
206 cord_individual_obj[indivial_i,:] = [18. 8. 174. 182.]
207 cord_individual_obj[indivial_i,:] = [19. 8. 83. 91.]
208 cord_individual_obj[indivial_i,:] = [20. 8. 86. 94.]
209 cord_individual_obj[indivial_i,:] = [21. 8. 83. 91.]
210 cord_individual_obj[indivial_i,:] = [22. 8. 129. 137.]
211 cord_individual_obj[indivial_i,:] = [23. 7. 87. 94.]
212 cord_individual_obj[indivial_i,:] = [24. 9. 119. 128.]
213
214 min(cord_individual_obj[:,3]) = 58.0
215 historl_G_best_iter[iter,3] = 58.0
216 Begin iteration:
217
218 iter = 6
219 cord_individual_obj[indivial_i,:] = [ 0. 8. 77. 85.]
220 cord_individual_obj[indivial_i,:] = [ 1. 8. 137. 145.]
221 cord_individual_obj[indivial_i,:] = [ 2. 8. 90. 98.]
222 cord_individual_obj[indivial_i,:] = [ 3. 8. 130. 138.]
223 cord_individual_obj[indivial_i,:] = [ 4. 9. 101. 110.]
224 cord_individual_obj[indivial_i,:] = [ 5. 8. 89. 97.]
225 cord_individual_obj[indivial_i,:] = [ 6. 7. 92. 99.]
226 cord_individual_obj[indivial_i,:] = [ 7. 8. 121. 129.]
227 cord_individual_obj[indivial_i,:] = [ 8. 7. 146. 153.]
228 cord_individual_obj[indivial_i,:] = [ 9. 8. 118. 126.]
229 cord_individual_obj[indivial_i,:] = [10. 7. 61. 68.]
230 cord_individual_obj[indivial_i,:] = [11. 8. 80. 88.]
231 cord_individual_obj[indivial_i,:] = [12. 7. 125. 132.]
232 cord_individual_obj[indivial_i,:] = [13. 8. 94. 102.]
233 cord_individual_obj[indivial_i,:] = [14. 8. 129. 137.]
234 cord_individual_obj[indivial_i,:] = [15. 9. 108. 117.]
235 cord_individual_obj[indivial_i,:] = [16. 7. 81. 88.]
236 cord_individual_obj[indivial_i,:] = [17. 9. 122. 131.]
237 cord_individual_obj[indivial_i,:] = [18. 8. 50. 58.]
238 cord_individual_obj[indivial_i,:] = [19. 8. 107. 115.]
239 cord_individual_obj[indivial_i,:] = [20. 8. 89. 97.]
240 cord_individual_obj[indivial_i,:] = [21. 8. 107. 115.]
241 cord_individual_obj[indivial_i,:] = [22. 9. 137. 146.]
242 cord_individual_obj[indivial_i,:] = [23. 8. 91. 99.]
243 cord_individual_obj[indivial_i,:] = [24. 8. 78. 86.]
244
245 min(cord_individual_obj[:,3]) = 58.0
246 historl_G_best_iter[iter,3] = 58.0
247 Begin iteration:

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248
249 iter = 7
250 cord_individual_obj[indivial_i, :] = [ 0.  9. 78. 87.]
251 cord_individual_obj[indivial_i, :] = [ 1.  8. 160. 168.]
252 cord_individual_obj[indivial_i, :] = [ 2.  9. 89. 98.]
253 cord_individual_obj[indivial_i, :] = [ 3.  9. 130. 139.]
254 cord_individual_obj[indivial_i, :] = [ 4.  8. 86. 94.]
255 cord_individual_obj[indivial_i, :] = [ 5.  9. 67. 76.]
256 cord_individual_obj[indivial_i, :] = [ 6.  9. 89. 98.]
257 cord_individual_obj[indivial_i, :] = [ 7. 10. 77. 87.]
258 cord_individual_obj[indivial_i, :] = [ 8.  8. 50. 58.]
259 cord_individual_obj[indivial_i, :] = [ 9.  9. 95. 104.]
260 cord_individual_obj[indivial_i, :] = [10.  9. 92. 101.]
261 cord_individual_obj[indivial_i, :] = [11.  8. 108. 116.]
262 cord_individual_obj[indivial_i, :] = [12.  9. 88. 97.]
263 cord_individual_obj[indivial_i, :] = [13. 10. 126. 136.]
264 cord_individual_obj[indivial_i, :] = [14.  9. 120. 129.]
265 cord_individual_obj[indivial_i, :] = [15.  8. 185. 193.]
266 cord_individual_obj[indivial_i, :] = [16.  8. 92. 100.]
267 cord_individual_obj[indivial_i, :] = [17.  8. 138. 146.]
268 cord_individual_obj[indivial_i, :] = [18.  8. 174. 182.]
269 cord_individual_obj[indivial_i, :] = [19.  8. 93. 101.]
270 cord_individual_obj[indivial_i, :] = [20.  7. 60. 67.]
271 cord_individual_obj[indivial_i, :] = [21.  7. 94. 101.]
272 cord_individual_obj[indivial_i, :] = [22.  9. 112. 121.]
273 cord_individual_obj[indivial_i, :] = [23.  8. 93. 101.]
274 cord_individual_obj[indivial_i, :] = [24.  9. 150. 159.]
275
276 min(cord_individual_obj[:, 3]) = 58.0
277 historl_G_best_iter[iter, 3] = 58.0
278 Begin iteration:
279
280 iter = 8
281 cord_individual_obj[indivial_i, :] = [ 0. 10. 81. 91.]
282 cord_individual_obj[indivial_i, :] = [ 1.  8. 93. 101.]
283 cord_individual_obj[indivial_i, :] = [ 2.  7. 108. 115.]
284 cord_individual_obj[indivial_i, :] = [ 3.  7. 90. 97.]
285 cord_individual_obj[indivial_i, :] = [ 4.  7. 100. 107.]
286 cord_individual_obj[indivial_i, :] = [ 5.  8. 71. 79.]
287 cord_individual_obj[indivial_i, :] = [ 6.  7. 109. 116.]
288 cord_individual_obj[indivial_i, :] = [ 7.  7. 125. 132.]
289 cord_individual_obj[indivial_i, :] = [ 8.  8. 88. 96.]
290 cord_individual_obj[indivial_i, :] = [ 9.  8. 71. 79.]
291 cord_individual_obj[indivial_i, :] = [10.  9. 145. 154.]
292 cord_individual_obj[indivial_i, :] = [11.  8. 101. 109.]
293 cord_individual_obj[indivial_i, :] = [12.  8. 128. 136.]
294 cord_individual_obj[indivial_i, :] = [13.  8. 94. 102.]
295 cord_individual_obj[indivial_i, :] = [14.  9. 131. 140.]
296 cord_individual_obj[indivial_i, :] = [15.  8. 50. 58.]
297 cord_individual_obj[indivial_i, :] = [16.  9. 129. 138.]
298 cord_individual_obj[indivial_i, :] = [17.  8. 136. 144.]
299 cord_individual_obj[indivial_i, :] = [18. 10. 87. 97.]
300 cord_individual_obj[indivial_i, :] = [19.  7. 119. 126.]
301 cord_individual_obj[indivial_i, :] = [20.  8. 97. 105.]
302 cord_individual_obj[indivial_i, :] = [21.  8. 91. 99.]
303 cord_individual_obj[indivial_i, :] = [22.  8. 134. 142.]
304 cord_individual_obj[indivial_i, :] = [23.  7. 138. 145.]
305 cord_individual_obj[indivial_i, :] = [24. 10. 127. 137.]
306
307 min(cord_individual_obj[:, 3]) = 58.0
308 historl_G_best_iter[iter, 3] = 58.0
309 Begin iteration:
310
311 iter = 9
312 cord_individual_obj[indivial_i, :] = [ 0.  9. 71. 80.]
313 cord_individual_obj[indivial_i, :] = [ 1. 11. 78. 89.]
314 cord_individual_obj[indivial_i, :] = [ 2.  9. 110. 119.]
315 cord_individual_obj[indivial_i, :] = [ 3. 11. 186. 197.]
316 cord_individual_obj[indivial_i, :] = [ 4. 10. 79. 89.]
317 cord_individual_obj[indivial_i, :] = [ 5.  8. 66. 74.]
318 cord_individual_obj[indivial_i, :] = [ 6.  8. 77. 85.]
319 cord_individual_obj[indivial_i, :] = [ 7.  9. 69. 78.]
320 cord_individual_obj[indivial_i, :] = [ 8.  9. 90. 99.]
321 cord_individual_obj[indivial_i, :] = [ 9.  9. 58. 67.]
322 cord_individual_obj[indivial_i, :] = [10.  8. 50. 58.]
323 cord_individual_obj[indivial_i, :] = [11.  8. 85. 93.]
324 cord_individual_obj[indivial_i, :] = [12. 10. 97. 107.]
325 cord_individual_obj[indivial_i, :] = [13.  9. 75. 84.]
326 cord_individual_obj[indivial_i, :] = [14.  8. 105. 113.]
327 cord_individual_obj[indivial_i, :] = [15.  8. 111. 119.]
328 cord_individual_obj[indivial_i, :] = [16.  9. 85. 94.]
329 cord_individual_obj[indivial_i, :] = [17.  8. 61. 69.]
330 cord_individual_obj[indivial_i, :] = [18.  9. 68. 77.]
331 cord_individual_obj[indivial_i, :] = [19.  9. 83. 92.]

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unknown

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332 cord_individual_obj[indivial_i,:] = [ 20.  7. 97. 104.]  
333 cord_individual_obj[indivial_i,:] = [ 21.  8. 109. 117.]  
334 cord_individual_obj[indivial_i,:] = [22.  9. 75. 84.]  
335 cord_individual_obj[indivial_i,:] = [23. 10. 75. 85.]  
336 cord_individual_obj[indivial_i,:] = [ 24.  8. 112. 120.]  
337  
338 min(cord_individual_obj[:,3]) = 58.0  
339 histol_G_best_iter[iter,3] = 58.0  
340 Begin iteration:  
341  
342 iter = 10  
343 cord_individual_obj[indivial_i,:] = [ 0. 11. 116. 127.]  
344 cord_individual_obj[indivial_i,:] = [ 1. 9. 135. 144.]  
345 cord_individual_obj[indivial_i,:] = [ 2. 10. 126. 136.]  
346 cord_individual_obj[indivial_i,:] = [ 3. 8. 50. 58.]  
347 cord_individual_obj[indivial_i,:] = [ 4. 8. 92. 100.]  
348 cord_individual_obj[indivial_i,:] = [ 5. 10. 54. 64.]  
349 cord_individual_obj[indivial_i,:] = [ 6. 10. 93. 103.]  
350 cord_individual_obj[indivial_i,:] = [ 7. 8. 186. 194.]  
351 cord_individual_obj[indivial_i,:] = [ 8. 10. 117. 127.]  
352 cord_individual_obj[indivial_i,:] = [ 9. 8. 104. 112.]  
353 cord_individual_obj[indivial_i,:] = [10. 8. 164. 172.]  
354 cord_individual_obj[indivial_i,:] = [11. 8. 130. 138.]  
355 cord_individual_obj[indivial_i,:] = [12. 9. 104. 113.]  
356 cord_individual_obj[indivial_i,:] = [13. 9. 84. 93.]  
357 cord_individual_obj[indivial_i,:] = [14. 8. 106. 114.]  
358 cord_individual_obj[indivial_i,:] = [15. 8. 114. 122.]  
359 cord_individual_obj[indivial_i,:] = [16. 8. 132. 140.]  
360 cord_individual_obj[indivial_i,:] = [17. 8. 112. 120.]  
361 cord_individual_obj[indivial_i,:] = [18. 9. 147. 156.]  
362 cord_individual_obj[indivial_i,:] = [19. 10. 83. 93.]  
363 cord_individual_obj[indivial_i,:] = [20. 7. 120. 127.]  
364 cord_individual_obj[indivial_i,:] = [21. 8. 102. 110.]  
365 cord_individual_obj[indivial_i,:] = [22. 10. 153. 163.]  
366 cord_individual_obj[indivial_i,:] = [23. 7. 128. 135.]  
367 cord_individual_obj[indivial_i,:] = [24. 8. 131. 139.]  
368  
369 min(cord_individual_obj[:,3]) = 58.0  
370 histol_G_best_iter[iter,3] = 58.0  
371 Begin iteration:  
372  
373 iter = 11  
374 cord_individual_obj[indivial_i,:] = [ 0. 9. 81. 90.]  
375 cord_individual_obj[indivial_i,:] = [ 1. 9. 126. 135.]  
376 cord_individual_obj[indivial_i,:] = [ 2. 8. 116. 124.]  
377 cord_individual_obj[indivial_i,:] = [ 3. 10. 79. 89.]  
378 cord_individual_obj[indivial_i,:] = [ 4. 8. 83. 91.]  
379 cord_individual_obj[indivial_i,:] = [ 5. 7. 98. 105.]  
380 cord_individual_obj[indivial_i,:] = [ 6. 7. 126. 133.]  
381 cord_individual_obj[indivial_i,:] = [ 7. 8. 50. 58.]  
382 cord_individual_obj[indivial_i,:] = [ 8. 7. 104. 111.]  
383 cord_individual_obj[indivial_i,:] = [ 9. 8. 117. 125.]  
384 cord_individual_obj[indivial_i,:] = [10. 8. 136. 144.]  
385 cord_individual_obj[indivial_i,:] = [11. 8. 90. 98.]  
386 cord_individual_obj[indivial_i,:] = [12. 10. 153. 163.]  
387 cord_individual_obj[indivial_i,:] = [13. 9. 100. 109.]  
388 cord_individual_obj[indivial_i,:] = [14. 9. 157. 166.]  
389 cord_individual_obj[indivial_i,:] = [15. 9. 158. 167.]  
390 cord_individual_obj[indivial_i,:] = [16. 8. 66. 74.]  
391 cord_individual_obj[indivial_i,:] = [17. 9. 91. 100.]  
392 cord_individual_obj[indivial_i,:] = [18. 8. 78. 86.]  
393 cord_individual_obj[indivial_i,:] = [19. 8. 123. 131.]  
394 cord_individual_obj[indivial_i,:] = [20. 8. 110. 118.]  
395 cord_individual_obj[indivial_i,:] = [21. 7. 124. 131.]  
396 cord_individual_obj[indivial_i,:] = [22. 10. 84. 94.]  
397 cord_individual_obj[indivial_i,:] = [23. 8. 75. 83.]  
398 cord_individual_obj[indivial_i,:] = [24. 9. 169. 178.]  
399  
400 min(cord_individual_obj[:,3]) = 58.0  
401 histol_G_best_iter[iter,3] = 58.0  
402 Begin iteration:  
403  
404 iter = 12  
405 cord_individual_obj[indivial_i,:] = [ 0. 9. 90. 99.]  
406 cord_individual_obj[indivial_i,:] = [ 1. 9. 94. 103.]  
407 cord_individual_obj[indivial_i,:] = [ 2. 9. 92. 101.]  
408 cord_individual_obj[indivial_i,:] = [ 3. 8. 59. 67.]  
409 cord_individual_obj[indivial_i,:] = [ 4. 7. 107. 114.]  
410 cord_individual_obj[indivial_i,:] = [ 5. 9. 146. 155.]  
411 cord_individual_obj[indivial_i,:] = [ 6. 7. 97. 104.]  
412 cord_individual_obj[indivial_i,:] = [ 7. 9. 85. 94.]  
413 cord_individual_obj[indivial_i,:] = [ 8. 9. 65. 74.]  
414 cord_individual_obj[indivial_i,:] = [ 9. 10. 70. 80.]  
415 cord_individual_obj[indivial_i,:] = [10. 7. 74. 81.]
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416 cord_individual_obj[indivial_i,:] = [11. 9. 72. 81.]
417 cord_individual_obj[indivial_i,:] = [12. 8. 70. 78.]
418 cord_individual_obj[indivial_i,:] = [13. 7. 76. 83.]
419 cord_individual_obj[indivial_i,:] = [14. 9. 110. 119.]
420 cord_individual_obj[indivial_i,:] = [15. 7. 132. 139.]
421 cord_individual_obj[indivial_i,:] = [16. 10. 90. 100.]
422 cord_individual_obj[indivial_i,:] = [17. 9. 80. 89.]
423 cord_individual_obj[indivial_i,:] = [18. 10. 87. 97.]
424 cord_individual_obj[indivial_i,:] = [19. 8. 96. 104.]
425 cord_individual_obj[indivial_i,:] = [20. 7. 77. 84.]
426 cord_individual_obj[indivial_i,:] = [21. 8. 96. 104.]
427 cord_individual_obj[indivial_i,:] = [22. 9. 47. 56.]
428 cord_individual_obj[indivial_i,:] = [23. 8. 81. 89.]
429 cord_individual_obj[indivial_i,:] = [24. 8. 50. 58.]
430
431 min(cord_individual_obj[:,3]) = 56.0
432 histol_G_best_iter[iter,3] = 56.0
433 Begin iteration:
434
435 iter = 13
436 cord_individual_obj[indivial_i,:] = [ 0. 7. 69. 76.]
437 cord_individual_obj[indivial_i,:] = [ 1. 8. 114. 122.]
438 cord_individual_obj[indivial_i,:] = [ 2. 9. 76. 85.]
439 cord_individual_obj[indivial_i,:] = [ 3. 7. 92. 99.]
440 cord_individual_obj[indivial_i,:] = [ 4. 9. 110. 119.]
441 cord_individual_obj[indivial_i,:] = [ 5. 9. 47. 56.]
442 cord_individual_obj[indivial_i,:] = [ 6. 10. 106. 116.]
443 cord_individual_obj[indivial_i,:] = [ 7. 8. 115. 123.]
444 cord_individual_obj[indivial_i,:] = [ 8. 7. 103. 110.]
445 cord_individual_obj[indivial_i,:] = [ 9. 7. 101. 108.]
446 cord_individual_obj[indivial_i,:] = [10. 8. 98. 106.]
447 cord_individual_obj[indivial_i,:] = [11. 9. 116. 125.]
448 cord_individual_obj[indivial_i,:] = [12. 7. 129. 136.]
449 cord_individual_obj[indivial_i,:] = [13. 8. 83. 91.]
450 cord_individual_obj[indivial_i,:] = [14. 8. 89. 97.]
451 cord_individual_obj[indivial_i,:] = [15. 8. 106. 114.]
452 cord_individual_obj[indivial_i,:] = [16. 9. 61. 70.]
453 cord_individual_obj[indivial_i,:] = [17. 7. 105. 112.]
454 cord_individual_obj[indivial_i,:] = [18. 8. 117. 125.]
455 cord_individual_obj[indivial_i,:] = [19. 8. 107. 115.]
456 cord_individual_obj[indivial_i,:] = [20. 8. 90. 98.]
457 cord_individual_obj[indivial_i,:] = [21. 7. 80. 87.]
458 cord_individual_obj[indivial_i,:] = [22. 8. 66. 74.]
459 cord_individual_obj[indivial_i,:] = [23. 7. 95. 102.]
460 cord_individual_obj[indivial_i,:] = [24. 7. 143. 150.]
461
462 min(cord_individual_obj[:,3]) = 56.0
463 histol_G_best_iter[iter,3] = 56.0
464 Begin iteration:
465
466 iter = 14
467 cord_individual_obj[indivial_i,:] = [ 0. 9. 128. 137.]
468 cord_individual_obj[indivial_i,:] = [ 1. 8. 86. 94.]
469 cord_individual_obj[indivial_i,:] = [ 2. 9. 118. 127.]
470 cord_individual_obj[indivial_i,:] = [ 3. 8. 76. 84.]
471 cord_individual_obj[indivial_i,:] = [ 4. 8. 115. 123.]
472 cord_individual_obj[indivial_i,:] = [ 5. 10. 132. 142.]
473 cord_individual_obj[indivial_i,:] = [ 6. 8. 88. 96.]
474 cord_individual_obj[indivial_i,:] = [ 7. 10. 82. 92.]
475 cord_individual_obj[indivial_i,:] = [ 8. 8. 115. 123.]
476 cord_individual_obj[indivial_i,:] = [ 9. 10. 78. 88.]
477 cord_individual_obj[indivial_i,:] = [10. 8. 115. 123.]
478 cord_individual_obj[indivial_i,:] = [11. 11. 114. 125.]
479 cord_individual_obj[indivial_i,:] = [12. 8. 74. 82.]
480 cord_individual_obj[indivial_i,:] = [13. 8. 64. 72.]
481 cord_individual_obj[indivial_i,:] = [14. 9. 127. 136.]
482 cord_individual_obj[indivial_i,:] = [15. 11. 122. 133.]
483 cord_individual_obj[indivial_i,:] = [16. 9. 150. 159.]
484 cord_individual_obj[indivial_i,:] = [17. 9. 81. 90.]
485 cord_individual_obj[indivial_i,:] = [18. 8. 85. 93.]
486 cord_individual_obj[indivial_i,:] = [19. 8. 109. 117.]
487 cord_individual_obj[indivial_i,:] = [20. 7. 74. 81.]
488 cord_individual_obj[indivial_i,:] = [21. 9. 74. 83.]
489 cord_individual_obj[indivial_i,:] = [22. 9. 149. 158.]
490 cord_individual_obj[indivial_i,:] = [23. 8. 139. 147.]
491 cord_individual_obj[indivial_i,:] = [24. 9. 47. 56.]
492
493 min(cord_individual_obj[:,3]) = 56.0
494 histol_G_best_iter[iter,3] = 56.0
495 Begin iteration:
496
497 iter = 15
498 cord_individual_obj[indivial_i,:] = [ 0. 8. 89. 97.]
499 cord_individual_obj[indivial_i,:] = [ 1. 8. 130. 138.]

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500 cord_individual_obj[indivial_i,:] = [ 2. 8. 116. 124.]
501 cord_individual_obj[indivial_i,:] = [ 3. 8. 81. 89.]
502 cord_individual_obj[indivial_i,:] = [ 4. 8. 61. 69.]
503 cord_individual_obj[indivial_i,:] = [ 5. 11. 96. 107.]
504 cord_individual_obj[indivial_i,:] = [ 6. 7. 106. 113.]
505 cord_individual_obj[indivial_i,:] = [ 7. 8. 77. 85.]
506 cord_individual_obj[indivial_i,:] = [ 8. 8. 87. 95.]
507 cord_individual_obj[indivial_i,:] = [ 9. 9. 120. 129.]
508 cord_individual_obj[indivial_i,:] = [10. 8. 63. 71.]
509 cord_individual_obj[indivial_i,:] = [11. 7. 101. 108.]
510 cord_individual_obj[indivial_i,:] = [12. 6. 81. 87.]
511 cord_individual_obj[indivial_i,:] = [13. 7. 132. 139.]
512 cord_individual_obj[indivial_i,:] = [14. 10. 142. 152.]
513 cord_individual_obj[indivial_i,:] = [15. 9. 96. 105.]
514 cord_individual_obj[indivial_i,:] = [16. 9. 47. 56.]
515 cord_individual_obj[indivial_i,:] = [17. 9. 115. 124.]
516 cord_individual_obj[indivial_i,:] = [18. 8. 111. 119.]
517 cord_individual_obj[indivial_i,:] = [19. 9. 128. 137.]
518 cord_individual_obj[indivial_i,:] = [20. 7. 88. 95.]
519 cord_individual_obj[indivial_i,:] = [21. 8. 80. 88.]
520 cord_individual_obj[indivial_i,:] = [22. 9. 69. 78.]
521 cord_individual_obj[indivial_i,:] = [23. 9. 138. 147.]
522 cord_individual_obj[indivial_i,:] = [24. 8. 97. 105.]
523
524 min(cord_individual_obj[:, 3]) = 56.0
525 histol_G_best_iter[iter, 3] = 56.0
526 Begin iteration:
527
528 iter = 16
529 cord_individual_obj[indivial_i,:] = [ 0. 10. 116. 126.]
530 cord_individual_obj[indivial_i,:] = [ 1. 8. 90. 98.]
531 cord_individual_obj[indivial_i,:] = [ 2. 7. 81. 88.]
532 cord_individual_obj[indivial_i,:] = [ 3. 9. 49. 58.]
533 cord_individual_obj[indivial_i,:] = [ 4. 7. 77. 84.]
534 cord_individual_obj[indivial_i,:] = [ 5. 9. 140. 149.]
535 cord_individual_obj[indivial_i,:] = [ 6. 8. 91. 99.]
536 cord_individual_obj[indivial_i,:] = [ 7. 10. 91. 101.]
537 cord_individual_obj[indivial_i,:] = [ 8. 8. 90. 98.]
538 cord_individual_obj[indivial_i,:] = [ 9. 9. 94. 103.]
539 cord_individual_obj[indivial_i,:] = [10. 9. 118. 127.]
540 cord_individual_obj[indivial_i,:] = [11. 8. 168. 176.]
541 cord_individual_obj[indivial_i,:] = [12. 9. 106. 115.]
542 cord_individual_obj[indivial_i,:] = [13. 8. 99. 107.]
543 cord_individual_obj[indivial_i,:] = [14. 9. 47. 56.]
544 cord_individual_obj[indivial_i,:] = [15. 11. 132. 143.]
545 cord_individual_obj[indivial_i,:] = [16. 7. 120. 127.]
546 cord_individual_obj[indivial_i,:] = [17. 9. 79. 88.]
547 cord_individual_obj[indivial_i,:] = [18. 10. 115. 125.]
548 cord_individual_obj[indivial_i,:] = [19. 9. 47. 56.]
549 cord_individual_obj[indivial_i,:] = [20. 9. 113. 122.]
550 cord_individual_obj[indivial_i,:] = [21. 11. 101. 112.]
551 cord_individual_obj[indivial_i,:] = [22. 8. 98. 106.]
552 cord_individual_obj[indivial_i,:] = [23. 11. 108. 119.]
553 cord_individual_obj[indivial_i,:] = [24. 8. 86. 94.]
554
555 min(cord_individual_obj[:, 3]) = 56.0
556 histol_G_best_iter[iter, 3] = 56.0
557 Begin iteration:
558
559 iter = 17
560 cord_individual_obj[indivial_i,:] = [ 0. 8. 113. 121.]
561 cord_individual_obj[indivial_i,:] = [ 1. 8. 98. 106.]
562 cord_individual_obj[indivial_i,:] = [ 2. 8. 78. 86.]
563 cord_individual_obj[indivial_i,:] = [ 3. 8. 118. 126.]
564 cord_individual_obj[indivial_i,:] = [ 4. 8. 126. 134.]
565 cord_individual_obj[indivial_i,:] = [ 5. 8. 116. 124.]
566 cord_individual_obj[indivial_i,:] = [ 6. 10. 111. 121.]
567 cord_individual_obj[indivial_i,:] = [ 7. 8. 102. 110.]
568 cord_individual_obj[indivial_i,:] = [ 8. 9. 72. 81.]
569 cord_individual_obj[indivial_i,:] = [ 9. 9. 98. 107.]
570 cord_individual_obj[indivial_i,:] = [10. 7. 120. 127.]
571 cord_individual_obj[indivial_i,:] = [11. 9. 47. 56.]
572 cord_individual_obj[indivial_i,:] = [12. 7. 73. 80.]
573 cord_individual_obj[indivial_i,:] = [13. 8. 110. 118.]
574 cord_individual_obj[indivial_i,:] = [14. 8. 65. 73.]
575 cord_individual_obj[indivial_i,:] = [15. 8. 112. 120.]
576 cord_individual_obj[indivial_i,:] = [16. 8. 125. 133.]
577 cord_individual_obj[indivial_i,:] = [17. 8. 88. 96.]
578 cord_individual_obj[indivial_i,:] = [18. 8. 124. 132.]
579 cord_individual_obj[indivial_i,:] = [19. 8. 105. 113.]
580 cord_individual_obj[indivial_i,:] = [20. 8. 73. 81.]
581 cord_individual_obj[indivial_i,:] = [21. 8. 92. 100.]
582 cord_individual_obj[indivial_i,:] = [22. 9. 75. 84.]
583 cord_individual_obj[indivial_i,:] = [23. 8. 124. 132.]

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584     cord_individual_obj[indivial_i, :] = [ 24.  7. 129. 136.]
585
586     min(cord_individual_obj[:, 3]) = 56.0
587     historl_G_best_iter[iter, 3] = 56.0
588 Begin iteration:
589
590 iter = 18
591     cord_individual_obj[indivial_i, :] = [ 0.  9. 74. 83.]
592     cord_individual_obj[indivial_i, :] = [ 1.  9. 125. 134.]
593     cord_individual_obj[indivial_i, :] = [ 2.  7. 69. 76.]
594     cord_individual_obj[indivial_i, :] = [ 3.  9. 59. 68.]
595     cord_individual_obj[indivial_i, :] = [ 4.  9. 96. 105.]
596     cord_individual_obj[indivial_i, :] = [ 5.  9. 88. 97.]
597     cord_individual_obj[indivial_i, :] = [ 6.  8. 88. 96.]
598     cord_individual_obj[indivial_i, :] = [ 7. 10. 75. 85.]
599     cord_individual_obj[indivial_i, :] = [ 8.  8. 74. 82.]
600     cord_individual_obj[indivial_i, :] = [ 9.  9. 76. 85.]
601     cord_individual_obj[indivial_i, :] = [ 10. 10. 113. 123.]
602     cord_individual_obj[indivial_i, :] = [ 11. 8. 103. 111.]
603     cord_individual_obj[indivial_i, :] = [ 12. 7. 92. 99.]
604     cord_individual_obj[indivial_i, :] = [ 13. 8. 65. 73.]
605     cord_individual_obj[indivial_i, :] = [ 14. 10. 113. 123.]
606     cord_individual_obj[indivial_i, :] = [ 15. 8. 157. 165.]
607     cord_individual_obj[indivial_i, :] = [ 16. 8. 158. 166.]
608     cord_individual_obj[indivial_i, :] = [ 17. 10. 106. 116.]
609     cord_individual_obj[indivial_i, :] = [ 18. 8. 94. 102.]
610     cord_individual_obj[indivial_i, :] = [ 19. 8. 115. 123.]
611     cord_individual_obj[indivial_i, :] = [ 20. 8. 78. 86.]
612     cord_individual_obj[indivial_i, :] = [ 21. 7. 89. 96.]
613     cord_individual_obj[indivial_i, :] = [ 22. 9. 74. 83.]
614     cord_individual_obj[indivial_i, :] = [ 23. 10. 79. 89.]
615     cord_individual_obj[indivial_i, :] = [ 24. 9. 47. 56.]
616
617     min(cord_individual_obj[:, 3]) = 56.0
618     historl_G_best_iter[iter, 3] = 56.0
619 Begin iteration:
620
621 iter = 19
622     cord_individual_obj[indivial_i, :] = [ 0.  9. 58. 67.]
623     cord_individual_obj[indivial_i, :] = [ 1.  8. 94. 102.]
624     cord_individual_obj[indivial_i, :] = [ 2.  9. 110. 119.]
625     cord_individual_obj[indivial_i, :] = [ 3.  9. 81. 90.]
626     cord_individual_obj[indivial_i, :] = [ 4.  9. 75. 84.]
627     cord_individual_obj[indivial_i, :] = [ 5.  8. 95. 103.]
628     cord_individual_obj[indivial_i, :] = [ 6. 10. 99. 109.]
629     cord_individual_obj[indivial_i, :] = [ 7. 10. 65. 75.]
630     cord_individual_obj[indivial_i, :] = [ 8. 8. 94. 102.]
631     cord_individual_obj[indivial_i, :] = [ 9. 8. 87. 95.]
632     cord_individual_obj[indivial_i, :] = [ 10. 8. 65. 73.]
633     cord_individual_obj[indivial_i, :] = [ 11. 7. 79. 86.]
634     cord_individual_obj[indivial_i, :] = [ 12. 8. 89. 97.]
635     cord_individual_obj[indivial_i, :] = [ 13. 9. 77. 86.]
636     cord_individual_obj[indivial_i, :] = [ 14. 8. 107. 115.]
637     cord_individual_obj[indivial_i, :] = [ 15. 8. 138. 146.]
638     cord_individual_obj[indivial_i, :] = [ 16. 9. 47. 56.]
639     cord_individual_obj[indivial_i, :] = [ 17. 10. 108. 118.]
640     cord_individual_obj[indivial_i, :] = [ 18. 9. 89. 98.]
641     cord_individual_obj[indivial_i, :] = [ 19. 8. 113. 121.]
642     cord_individual_obj[indivial_i, :] = [ 20. 10. 121. 131.]
643     cord_individual_obj[indivial_i, :] = [ 21. 10. 82. 92.]
644     cord_individual_obj[indivial_i, :] = [ 22. 8. 96. 104.]
645     cord_individual_obj[indivial_i, :] = [ 23. 8. 121. 129.]
646     cord_individual_obj[indivial_i, :] = [ 24. 9. 102. 111.]
647
648     min(cord_individual_obj[:, 3]) = 56.0
649     historl_G_best_iter[iter, 3] = 56.0
650 Begin iteration:
651
652 iter = 20
653     cord_individual_obj[indivial_i, :] = [ 0.  8. 130. 138.]
654     cord_individual_obj[indivial_i, :] = [ 1.  8. 82. 90.]
655     cord_individual_obj[indivial_i, :] = [ 2.  9. 109. 118.]
656     cord_individual_obj[indivial_i, :] = [ 3.  9. 82. 91.]
657     cord_individual_obj[indivial_i, :] = [ 4.  8. 150. 158.]
658     cord_individual_obj[indivial_i, :] = [ 5.  9. 147. 156.]
659     cord_individual_obj[indivial_i, :] = [ 6. 9. 82. 91.]
660     cord_individual_obj[indivial_i, :] = [ 7. 10. 64. 74.]
661     cord_individual_obj[indivial_i, :] = [ 8. 7. 93. 100.]
662     cord_individual_obj[indivial_i, :] = [ 9. 8. 107. 115.]
663     cord_individual_obj[indivial_i, :] = [ 10. 10. 112. 122.]
664     cord_individual_obj[indivial_i, :] = [ 11. 10. 173. 183.]
665     cord_individual_obj[indivial_i, :] = [ 12. 8. 115. 123.]
666     cord_individual_obj[indivial_i, :] = [ 13. 7. 80. 87.]
667     cord_individual_obj[indivial_i, :] = [ 14. 11. 77. 88.]

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668 cord_individual_obj[indivial_i,:] = [15. 9. 47. 56.]
669 cord_individual_obj[indivial_i,:] = [16. 8. 120. 128.]
670 cord_individual_obj[indivial_i,:] = [17. 7. 104. 111.]
671 cord_individual_obj[indivial_i,:] = [18. 9. 164. 173.]
672 cord_individual_obj[indivial_i,:] = [19. 10. 87. 97.]
673 cord_individual_obj[indivial_i,:] = [20. 8. 95. 103.]
674 cord_individual_obj[indivial_i,:] = [21. 9. 95. 104.]
675 cord_individual_obj[indivial_i,:] = [22. 9. 104. 113.]
676 cord_individual_obj[indivial_i,:] = [23. 8. 76. 84.]
677 cord_individual_obj[indivial_i,:] = [24. 8. 115. 123.]
678
679 min(cord_individual_obj[:,3]) = 56.0
680 historl_G_best_iter[iter,3] = 56.0
681 Iteration calculate over
682
683
684
685
686 All item are in Bin and:
687 Bin area = 1080
688 Real_area = 224.0
689 Proportion_of_area = 0.2074074074074074
690 BEST_CHROM =
691 berth: [10.5 18.5 23. 4.5 9.5 3.5 25.5 13.5 10.5 23. 2. 3.5 21.5 16.5]
692 time: [4. 5. 1. 6. 1. 4. 5. 7. 0. 2. 2. 0. 0. 0.]
693 num_QC: [3. 4. 3. 5. 3. 4. 2. 2. 5. 2. 3. 4. 4. 4.]
694 Objective function values and some other indicators:
695 Obj0 = 9.00 Obj1 = 47.00 Obj0 + Obj1 = 56.00
696 Total movement of crane: 8.00
697 Total waiting time in berth position: 37.00
698 Total index of q during berthing: 771.00
699 Specific arrangement for each vessel:
700 V_id: 0 li: 7.0 xi: 10.5 bow of i: 7.0 tail of i: 14.0 gama_i0: 4.0 gama_i1: 5
701 .0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 120.0 work
702 load_i: 120.0 work load gap_i: 0
703 V_id: 1 li: 9.0 xi: 18.5 bow of i: 14.0 tail of i: 23.0 gama_i0: 5.0 gama_i1: 6
704 .0 gama_i1 + 1: 7.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 120.0 work
705 load_i: 120.0 work load gap_i: 0
706 V_id: 2 li: 8.0 xi: 23.0 bow of i: 19.0 tail of i: 27.0 gama_i0: 1.0 gama_i1: 1
707 .0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 60.0 work
708 load_i: 60.0 work load gap_i: 0
709 V_id: 3 li: 9.0 xi: 4.5 bow of i: 0.0 tail of i: 9.0 gama_i0: 6.0 gama_i1: 7
710 .0 gama_i1 + 1: 8.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 120.0 work load_i:
711 120.0 work load gap_i: 0
712 V_id: 4 li: 5.0 xi: 9.5 bow of i: 7.0 tail of i: 12.0 gama_i0: 1.0 gama_i1: 3
713 .0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 160.0 work load_i:
714 160.0 work load gap_i: 0
715 V_id: 5 li: 7.0 xi: 3.5 bow of i: 0.0 tail of i: 7.0 gama_i0: 4.0 gama_i1: 5
716 .0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 160.0 work load_i:
717 160.0 work load gap_i: 0
718 V_id: 6 li: 5.0 xi: 25.5 bow of i: 23.0 tail of i: 28.0 gama_i0: 5.0 gama_i1: 6
719 .0 gama_i1 + 1: 7.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 80.0 work
720 load_i: 80.0 work load gap_i: 0
721 V_id: 7 li: 9.0 xi: 13.5 bow of i: 9.0 tail of i: 18.0 gama_i0: 7.0 gama_i1: 9
722 .0 gama_i1 + 1: 10.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 120.0 work
723 load_i: 120.0 work load gap_i: 0
724 V_id: 8 li: 7.0 xi: 10.5 bow of i: 7.0 tail of i: 14.0 gama_i0: 0.0 gama_i1: 0
725 .0 gama_i1 + 1: 1.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 100.0 work
726 load_i: 100.0 work load gap_i: 0
727 V_id: 9 li: 8.0 xi: 23.0 bow of i: 19.0 tail of i: 27.0 gama_i0: 2.0 gama_i1: 4
728 .0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 100.0 work
729 load_i: 100.0 work load gap_i: 0
730 V_id: 10 li: 4.0 xi: 2.0 bow of i: 0.0 tail of i: 4.0 gama_i0: 2.0 gama_i1: 3
731 .0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 120.0 work load_i:
732 120.0 work load gap_i: 0
733 V_id: 11 li: 7.0 xi: 3.5 bow of i: 0.0 tail of i: 7.0 gama_i0: 0.0 gama_i1: 1
734 .0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 160.0 work load_i:
735 160.0 work load gap_i: 0
736 V_id: 12 li: 5.0 xi: 21.5 bow of i: 19.0 tail of i: 24.0 gama_i0: 0.0 gama_i1: 0
737 : 0.0 gama_i1 + 1: 1.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 60.0 work
738 load_i: 60.0 work load gap_i: 0
739 V_id: 13 li: 5.0 xi: 16.5 bow of i: 14.0 tail of i: 19.0 gama_i0: 0.0 gama_i1: 0
740 : 1.0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 160.0 work
741 load_i: 160.0 work load gap_i: 0
742
743 Algorithm finished and the total CPU time: 369 s
744 End
745

```