

unknown

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80 cord_individual_obj[indivial_i,:] = [ 16. 12. 345. 357.]
81 cord_individual_obj[indivial_i,:] = [ 17. 15. 480. 495.]
82 cord_individual_obj[indivial_i,:] = [ 18. 12. 498. 510.]
83 cord_individual_obj[indivial_i,:] = [ 19. 13. 403. 416.]
84 cord_individual_obj[indivial_i,:] = [ 20. 11. 277. 288.]
85 cord_individual_obj[indivial_i,:] = [ 21. 12. 319. 331.]
86 cord_individual_obj[indivial_i,:] = [ 22. 11. 379. 390.]
87 cord_individual_obj[indivial_i,:] = [ 23. 12. 293. 305.]
88 cord_individual_obj[indivial_i,:] = [ 24. 12. 305. 317.]
89
90 min(cord_individual_obj[:,3]) = 263.0
91 historl_G_best_iter[iter, 3] = 263.0
92 Begin iteration:
93
94 iter = 2
95 cord_individual_obj[indivial_i,:] = [ 0. 12. 247. 259.]
96 cord_individual_obj[indivial_i,:] = [ 1. 10. 311. 321.]
97 cord_individual_obj[indivial_i,:] = [ 2. 12. 213. 225.]
98 cord_individual_obj[indivial_i,:] = [ 3. 12. 288. 300.]
99 cord_individual_obj[indivial_i,:] = [ 4. 12. 251. 263.]
100 cord_individual_obj[indivial_i,:] = [ 5. 11. 222. 233.]
101 cord_individual_obj[indivial_i,:] = [ 6. 12. 294. 306.]
102 cord_individual_obj[indivial_i,:] = [ 7. 10. 356. 366.]
103 cord_individual_obj[indivial_i,:] = [ 8. 11. 203. 214.]
104 cord_individual_obj[indivial_i,:] = [ 9. 11. 229. 240.]
105 cord_individual_obj[indivial_i,:] = [ 10. 10. 311. 321.]
106 cord_individual_obj[indivial_i,:] = [ 11. 13. 331. 344.]
107 cord_individual_obj[indivial_i,:] = [ 12. 13. 261. 274.]
108 cord_individual_obj[indivial_i,:] = [ 13. 13. 220. 233.]
109 cord_individual_obj[indivial_i,:] = [ 14. 11. 303. 314.]
110 cord_individual_obj[indivial_i,:] = [ 15. 12. 271. 283.]
111 cord_individual_obj[indivial_i,:] = [ 16. 11. 260. 271.]
112 cord_individual_obj[indivial_i,:] = [ 17. 14. 350. 364.]
113 cord_individual_obj[indivial_i,:] = [ 18. 12. 301. 313.]
114 cord_individual_obj[indivial_i,:] = [ 19. 14. 317. 331.]
115 cord_individual_obj[indivial_i,:] = [ 20. 9. 263. 272.]
116 cord_individual_obj[indivial_i,:] = [ 21. 12. 343. 355.]
117 cord_individual_obj[indivial_i,:] = [ 22. 11. 280. 291.]
118 cord_individual_obj[indivial_i,:] = [ 23. 12. 282. 294.]
119 cord_individual_obj[indivial_i,:] = [ 24. 10. 231. 241.]
120
121 min(cord_individual_obj[:,3]) = 214.0
122 historl_G_best_iter[iter, 3] = 214.0
123 Begin iteration:
124
125 iter = 3
126 cord_individual_obj[indivial_i,:] = [ 0. 10. 235. 245.]
127 cord_individual_obj[indivial_i,:] = [ 1. 12. 303. 315.]
128 cord_individual_obj[indivial_i,:] = [ 2. 10. 249. 259.]
129 cord_individual_obj[indivial_i,:] = [ 3. 11. 222. 233.]
130 cord_individual_obj[indivial_i,:] = [ 4. 12. 290. 302.]
131 cord_individual_obj[indivial_i,:] = [ 5. 11. 342. 353.]
132 cord_individual_obj[indivial_i,:] = [ 6. 12. 367. 379.]
133 cord_individual_obj[indivial_i,:] = [ 7. 11. 203. 214.]
134 cord_individual_obj[indivial_i,:] = [ 8. 12. 281. 293.]
135 cord_individual_obj[indivial_i,:] = [ 9. 12. 269. 281.]
136 cord_individual_obj[indivial_i,:] = [ 10. 10. 303. 313.]
137 cord_individual_obj[indivial_i,:] = [ 11. 10. 254. 264.]
138 cord_individual_obj[indivial_i,:] = [ 12. 13. 271. 284.]
139 cord_individual_obj[indivial_i,:] = [ 13. 14. 235. 249.]
140 cord_individual_obj[indivial_i,:] = [ 14. 12. 321. 333.]
141 cord_individual_obj[indivial_i,:] = [ 15. 12. 283. 295.]
142 cord_individual_obj[indivial_i,:] = [ 16. 13. 297. 310.]
143 cord_individual_obj[indivial_i,:] = [ 17. 14. 291. 305.]
144 cord_individual_obj[indivial_i,:] = [ 18. 13. 380. 393.]
145 cord_individual_obj[indivial_i,:] = [ 19. 16. 355. 371.]
146 cord_individual_obj[indivial_i,:] = [ 20. 9. 264. 273.]
147 cord_individual_obj[indivial_i,:] = [ 21. 14. 333. 347.]
148 cord_individual_obj[indivial_i,:] = [ 22. 13. 259. 272.]
149 cord_individual_obj[indivial_i,:] = [ 23. 12. 268. 280.]
150 cord_individual_obj[indivial_i,:] = [ 24. 11. 298. 309.]
151
152 min(cord_individual_obj[:,3]) = 214.0
153 historl_G_best_iter[iter, 3] = 214.0
154 Begin iteration:
155
156 iter = 4
157 cord_individual_obj[indivial_i,:] = [ 0. 10. 331. 341.]
158 cord_individual_obj[indivial_i,:] = [ 1. 9. 300. 309.]
159 cord_individual_obj[indivial_i,:] = [ 2. 13. 409. 422.]
160 cord_individual_obj[indivial_i,:] = [ 3. 11. 273. 284.]
161 cord_individual_obj[indivial_i,:] = [ 4. 13. 400. 413.]
162 cord_individual_obj[indivial_i,:] = [ 5. 10. 299. 309.]
163 cord_individual_obj[indivial_i,:] = [ 6. 12. 264. 276.]

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164 cord_individual_obj[indivial_i,:] = [ 7. 13. 279. 292.]
165 cord_individual_obj[indivial_i,:] = [ 8. 12. 300. 312.]
166 cord_individual_obj[indivial_i,:] = [ 9. 11. 272. 283.]
167 cord_individual_obj[indivial_i,:] = [ 10. 11. 328. 339.]
168 cord_individual_obj[indivial_i,:] = [ 11. 10. 281. 291.]
169 cord_individual_obj[indivial_i,:] = [ 12. 11. 289. 300.]
170 cord_individual_obj[indivial_i,:] = [ 13. 11. 315. 326.]
171 cord_individual_obj[indivial_i,:] = [ 14. 12. 323. 335.]
172 cord_individual_obj[indivial_i,:] = [ 15. 11. 303. 314.]
173 cord_individual_obj[indivial_i,:] = [ 16. 11. 313. 324.]
174 cord_individual_obj[indivial_i,:] = [ 17. 11. 375. 386.]
175 cord_individual_obj[indivial_i,:] = [ 18. 11. 203. 214.]
176 cord_individual_obj[indivial_i,:] = [ 19. 12. 367. 379.]
177 cord_individual_obj[indivial_i,:] = [ 20. 11. 372. 383.]
178 cord_individual_obj[indivial_i,:] = [ 21. 13. 394. 407.]
179 cord_individual_obj[indivial_i,:] = [ 22. 12. 305. 317.]
180 cord_individual_obj[indivial_i,:] = [ 23. 15. 394. 409.]
181 cord_individual_obj[indivial_i,:] = [ 24. 10. 381. 391.]
182
183 min(cord_individual_obj[:,3]) = 214.0
184 historl_G_best_iter[iter,3] = 214.0
185 Begin iteration:
186
187 iter = 5
188 cord_individual_obj[indivial_i,:] = [ 0. 11. 297. 308.]
189 cord_individual_obj[indivial_i,:] = [ 1. 10. 330. 340.]
190 cord_individual_obj[indivial_i,:] = [ 2. 11. 203. 214.]
191 cord_individual_obj[indivial_i,:] = [ 3. 11. 302. 313.]
192 cord_individual_obj[indivial_i,:] = [ 4. 13. 354. 367.]
193 cord_individual_obj[indivial_i,:] = [ 5. 11. 331. 342.]
194 cord_individual_obj[indivial_i,:] = [ 6. 13. 330. 343.]
195 cord_individual_obj[indivial_i,:] = [ 7. 12. 363. 375.]
196 cord_individual_obj[indivial_i,:] = [ 8. 12. 293. 305.]
197 cord_individual_obj[indivial_i,:] = [ 9. 11. 308. 319.]
198 cord_individual_obj[indivial_i,:] = [ 10. 9. 276. 285.]
199 cord_individual_obj[indivial_i,:] = [ 11. 11. 350. 361.]
200 cord_individual_obj[indivial_i,:] = [ 12. 10. 340. 350.]
201 cord_individual_obj[indivial_i,:] = [ 13. 10. 300. 310.]
202 cord_individual_obj[indivial_i,:] = [ 14. 12. 329. 341.]
203 cord_individual_obj[indivial_i,:] = [ 15. 12. 384. 396.]
204 cord_individual_obj[indivial_i,:] = [ 16. 11. 264. 275.]
205 cord_individual_obj[indivial_i,:] = [ 17. 12. 381. 393.]
206 cord_individual_obj[indivial_i,:] = [ 18. 12. 364. 376.]
207 cord_individual_obj[indivial_i,:] = [ 19. 13. 264. 277.]
208 cord_individual_obj[indivial_i,:] = [ 20. 11. 354. 365.]
209 cord_individual_obj[indivial_i,:] = [ 21. 12. 362. 374.]
210 cord_individual_obj[indivial_i,:] = [ 22. 13. 342. 355.]
211 cord_individual_obj[indivial_i,:] = [ 23. 14. 353. 367.]
212 cord_individual_obj[indivial_i,:] = [ 24. 12. 346. 358.]
213
214 min(cord_individual_obj[:,3]) = 214.0
215 historl_G_best_iter[iter,3] = 214.0
216 Begin iteration:
217
218 iter = 6
219 cord_individual_obj[indivial_i,:] = [ 0. 11. 260. 271.]
220 cord_individual_obj[indivial_i,:] = [ 1. 12. 368. 380.]
221 cord_individual_obj[indivial_i,:] = [ 2. 10. 281. 291.]
222 cord_individual_obj[indivial_i,:] = [ 3. 13. 210. 223.]
223 cord_individual_obj[indivial_i,:] = [ 4. 12. 293. 305.]
224 cord_individual_obj[indivial_i,:] = [ 5. 11. 274. 285.]
225 cord_individual_obj[indivial_i,:] = [ 6. 12. 209. 221.]
226 cord_individual_obj[indivial_i,:] = [ 7. 16. 219. 235.]
227 cord_individual_obj[indivial_i,:] = [ 8. 12. 315. 327.]
228 cord_individual_obj[indivial_i,:] = [ 9. 11. 294. 305.]
229 cord_individual_obj[indivial_i,:] = [ 10. 9. 246. 255.]
230 cord_individual_obj[indivial_i,:] = [ 11. 12. 295. 307.]
231 cord_individual_obj[indivial_i,:] = [ 12. 11. 286. 297.]
232 cord_individual_obj[indivial_i,:] = [ 13. 12. 284. 296.]
233 cord_individual_obj[indivial_i,:] = [ 14. 12. 332. 344.]
234 cord_individual_obj[indivial_i,:] = [ 15. 11. 203. 214.]
235 cord_individual_obj[indivial_i,:] = [ 16. 11. 254. 265.]
236 cord_individual_obj[indivial_i,:] = [ 17. 11. 244. 255.]
237 cord_individual_obj[indivial_i,:] = [ 18. 11. 260. 271.]
238 cord_individual_obj[indivial_i,:] = [ 19. 14. 324. 338.]
239 cord_individual_obj[indivial_i,:] = [ 20. 11. 251. 262.]
240 cord_individual_obj[indivial_i,:] = [ 21. 12. 264. 276.]
241 cord_individual_obj[indivial_i,:] = [ 22. 13. 297. 310.]
242 cord_individual_obj[indivial_i,:] = [ 23. 13. 334. 347.]
243 cord_individual_obj[indivial_i,:] = [ 24. 14. 231. 245.]
244
245 min(cord_individual_obj[:,3]) = 214.0
246 historl_G_best_iter[iter,3] = 214.0
247 Begin iteration:

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248
249 iter = 7
250 cord_individual_obj[indivial_i, :] = [ 0. 11. 279. 290.]
251 cord_individual_obj[indivial_i, :] = [ 1. 11. 203. 214.]
252 cord_individual_obj[indivial_i, :] = [ 2. 13. 345. 358.]
253 cord_individual_obj[indivial_i, :] = [ 3. 12. 330. 342.]
254 cord_individual_obj[indivial_i, :] = [ 4. 13. 290. 303.]
255 cord_individual_obj[indivial_i, :] = [ 5. 11. 369. 380.]
256 cord_individual_obj[indivial_i, :] = [ 6. 11. 300. 311.]
257 cord_individual_obj[indivial_i, :] = [ 7. 12. 272. 284.]
258 cord_individual_obj[indivial_i, :] = [ 8. 13. 293. 306.]
259 cord_individual_obj[indivial_i, :] = [ 9. 12. 286. 298.]
260 cord_individual_obj[indivial_i, :] = [ 10. 10. 332. 342.]
261 cord_individual_obj[indivial_i, :] = [ 11. 10. 340. 350.]
262 cord_individual_obj[indivial_i, :] = [ 12. 10. 302. 312.]
263 cord_individual_obj[indivial_i, :] = [ 13. 11. 316. 327.]
264 cord_individual_obj[indivial_i, :] = [ 14. 11. 298. 309.]
265 cord_individual_obj[indivial_i, :] = [ 15. 12. 315. 327.]
266 cord_individual_obj[indivial_i, :] = [ 16. 11. 294. 305.]
267 cord_individual_obj[indivial_i, :] = [ 17. 11. 356. 367.]
268 cord_individual_obj[indivial_i, :] = [ 18. 14. 390. 404.]
269 cord_individual_obj[indivial_i, :] = [ 19. 10. 391. 401.]
270 cord_individual_obj[indivial_i, :] = [ 20. 10. 277. 287.]
271 cord_individual_obj[indivial_i, :] = [ 21. 11. 273. 284.]
272 cord_individual_obj[indivial_i, :] = [ 22. 11. 331. 342.]
273 cord_individual_obj[indivial_i, :] = [ 23. 13. 325. 338.]
274 cord_individual_obj[indivial_i, :] = [ 24. 12. 349. 361.]
275

276 min(cord_individual_obj[:, 3]) = 214.0
277 historl_G_best_iter[iter, 3] = 214.0
278 Begin iteration:
279
280 iter = 8
281 cord_individual_obj[indivial_i, :] = [ 0. 11. 260. 271.]
282 cord_individual_obj[indivial_i, :] = [ 1. 10. 241. 251.]
283 cord_individual_obj[indivial_i, :] = [ 2. 10. 284. 294.]
284 cord_individual_obj[indivial_i, :] = [ 3. 12. 259. 271.]
285 cord_individual_obj[indivial_i, :] = [ 4. 12. 215. 227.]
286 cord_individual_obj[indivial_i, :] = [ 5. 10. 207. 217.]
287 cord_individual_obj[indivial_i, :] = [ 6. 13. 225. 238.]
288 cord_individual_obj[indivial_i, :] = [ 7. 15. 273. 288.]
289 cord_individual_obj[indivial_i, :] = [ 8. 12. 261. 273.]
290 cord_individual_obj[indivial_i, :] = [ 9. 10. 239. 249.]
291 cord_individual_obj[indivial_i, :] = [ 10. 10. 256. 266.]
292 cord_individual_obj[indivial_i, :] = [ 11. 10. 260. 270.]
293 cord_individual_obj[indivial_i, :] = [ 12. 13. 279. 292.]
294 cord_individual_obj[indivial_i, :] = [ 13. 12. 245. 257.]
295 cord_individual_obj[indivial_i, :] = [ 14. 11. 272. 283.]
296 cord_individual_obj[indivial_i, :] = [ 15. 13. 295. 308.]
297 cord_individual_obj[indivial_i, :] = [ 16. 11. 241. 252.]
298 cord_individual_obj[indivial_i, :] = [ 17. 13. 220. 233.]
299 cord_individual_obj[indivial_i, :] = [ 18. 11. 203. 214.]
300 cord_individual_obj[indivial_i, :] = [ 19. 12. 380. 392.]
301 cord_individual_obj[indivial_i, :] = [ 20. 10. 226. 236.]
302 cord_individual_obj[indivial_i, :] = [ 21. 11. 290. 301.]
303 cord_individual_obj[indivial_i, :] = [ 22. 12. 290. 302.]
304 cord_individual_obj[indivial_i, :] = [ 23. 13. 278. 291.]
305 cord_individual_obj[indivial_i, :] = [ 24. 12. 350. 362.]
306

307 min(cord_individual_obj[:, 3]) = 214.0
308 historl_G_best_iter[iter, 3] = 214.0
309 Begin iteration:
310
311 iter = 9
312 cord_individual_obj[indivial_i, :] = [ 0. 12. 269. 281.]
313 cord_individual_obj[indivial_i, :] = [ 1. 12. 313. 325.]
314 cord_individual_obj[indivial_i, :] = [ 2. 12. 346. 358.]
315 cord_individual_obj[indivial_i, :] = [ 3. 12. 270. 282.]
316 cord_individual_obj[indivial_i, :] = [ 4. 13. 308. 321.]
317 cord_individual_obj[indivial_i, :] = [ 5. 12. 268. 280.]
318 cord_individual_obj[indivial_i, :] = [ 6. 12. 269. 281.]
319 cord_individual_obj[indivial_i, :] = [ 7. 11. 273. 284.]
320 cord_individual_obj[indivial_i, :] = [ 8. 11. 261. 272.]
321 cord_individual_obj[indivial_i, :] = [ 9. 11. 348. 359.]
322 cord_individual_obj[indivial_i, :] = [ 10. 10. 289. 299.]
323 cord_individual_obj[indivial_i, :] = [ 11. 12. 286. 298.]
324 cord_individual_obj[indivial_i, :] = [ 12. 12. 344. 356.]
325 cord_individual_obj[indivial_i, :] = [ 13. 12. 301. 313.]
326 cord_individual_obj[indivial_i, :] = [ 14. 13. 290. 303.]
327 cord_individual_obj[indivial_i, :] = [ 15. 14. 279. 293.]
328 cord_individual_obj[indivial_i, :] = [ 16. 12. 294. 306.]
329 cord_individual_obj[indivial_i, :] = [ 17. 14. 379. 393.]
330 cord_individual_obj[indivial_i, :] = [ 18. 12. 364. 376.]
331 cord_individual_obj[indivial_i, :] = [ 19. 11. 203. 214.]

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332 cord_individual_obj[indivial_i, :] = [ 20. 10. 284. 294.]
333 cord_individual_obj[indivial_i, :] = [ 21. 12. 372. 384.]
334 cord_individual_obj[indivial_i, :] = [ 22. 11. 323. 334.]
335 cord_individual_obj[indivial_i, :] = [ 23. 12. 214. 226.]
336 cord_individual_obj[indivial_i, :] = [ 24. 11. 253. 264.]
337
338 min(cord_individual_obj[:, 3]) = 214.0
339 histol_G_best_iter[iter, 3] = 214.0
340 Begin iteration:
341
342 iter = 10
343 cord_individual_obj[indivial_i, :] = [ 0. 11. 292. 303.]
344 cord_individual_obj[indivial_i, :] = [ 1. 9. 411. 420.]
345 cord_individual_obj[indivial_i, :] = [ 2. 12. 305. 317.]
346 cord_individual_obj[indivial_i, :] = [ 3. 11. 345. 356.]
347 cord_individual_obj[indivial_i, :] = [ 4. 12. 280. 292.]
348 cord_individual_obj[indivial_i, :] = [ 5. 10. 350. 360.]
349 cord_individual_obj[indivial_i, :] = [ 6. 12. 361. 373.]
350 cord_individual_obj[indivial_i, :] = [ 7. 11. 309. 320.]
351 cord_individual_obj[indivial_i, :] = [ 8. 13. 367. 380.]
352 cord_individual_obj[indivial_i, :] = [ 9. 13. 308. 321.]
353 cord_individual_obj[indivial_i, :] = [ 10. 11. 310. 321.]
354 cord_individual_obj[indivial_i, :] = [ 11. 12. 355. 367.]
355 cord_individual_obj[indivial_i, :] = [ 12. 11. 356. 367.]
356 cord_individual_obj[indivial_i, :] = [ 13. 11. 375. 386.]
357 cord_individual_obj[indivial_i, :] = [ 14. 13. 395. 408.]
358 cord_individual_obj[indivial_i, :] = [ 15. 13. 321. 334.]
359 cord_individual_obj[indivial_i, :] = [ 16. 10. 322. 332.]
360 cord_individual_obj[indivial_i, :] = [ 17. 11. 203. 214.]
361 cord_individual_obj[indivial_i, :] = [ 18. 11. 324. 335.]
362 cord_individual_obj[indivial_i, :] = [ 19. 13. 332. 345.]
363 cord_individual_obj[indivial_i, :] = [ 20. 12. 418. 430.]
364 cord_individual_obj[indivial_i, :] = [ 21. 11. 285. 296.]
365 cord_individual_obj[indivial_i, :] = [ 22. 12. 288. 300.]
366 cord_individual_obj[indivial_i, :] = [ 23. 12. 273. 285.]
367 cord_individual_obj[indivial_i, :] = [ 24. 12. 306. 318.]
368
369 min(cord_individual_obj[:, 3]) = 214.0
370 histol_G_best_iter[iter, 3] = 214.0
371 Begin iteration:
372
373 iter = 11
374 cord_individual_obj[indivial_i, :] = [ 0. 13. 311. 324.]
375 cord_individual_obj[indivial_i, :] = [ 1. 9. 239. 248.]
376 cord_individual_obj[indivial_i, :] = [ 2. 11. 295. 306.]
377 cord_individual_obj[indivial_i, :] = [ 3. 11. 246. 257.]
378 cord_individual_obj[indivial_i, :] = [ 4. 13. 254. 267.]
379 cord_individual_obj[indivial_i, :] = [ 5. 11. 281. 292.]
380 cord_individual_obj[indivial_i, :] = [ 6. 12. 272. 284.]
381 cord_individual_obj[indivial_i, :] = [ 7. 14. 278. 292.]
382 cord_individual_obj[indivial_i, :] = [ 8. 12. 203. 215.]
383 cord_individual_obj[indivial_i, :] = [ 9. 11. 252. 263.]
384 cord_individual_obj[indivial_i, :] = [ 10. 11. 288. 299.]
385 cord_individual_obj[indivial_i, :] = [ 11. 11. 314. 325.]
386 cord_individual_obj[indivial_i, :] = [ 12. 14. 291. 305.]
387 cord_individual_obj[indivial_i, :] = [ 13. 13. 256. 269.]
388 cord_individual_obj[indivial_i, :] = [ 14. 13. 253. 266.]
389 cord_individual_obj[indivial_i, :] = [ 15. 11. 304. 315.]
390 cord_individual_obj[indivial_i, :] = [ 16. 12. 226. 238.]
391 cord_individual_obj[indivial_i, :] = [ 17. 13. 354. 367.]
392 cord_individual_obj[indivial_i, :] = [ 18. 12. 271. 283.]
393 cord_individual_obj[indivial_i, :] = [ 19. 12. 341. 353.]
394 cord_individual_obj[indivial_i, :] = [ 20. 11. 203. 214.]
395 cord_individual_obj[indivial_i, :] = [ 21. 11. 384. 395.]
396 cord_individual_obj[indivial_i, :] = [ 22. 12. 243. 255.]
397 cord_individual_obj[indivial_i, :] = [ 23. 12. 349. 361.]
398 cord_individual_obj[indivial_i, :] = [ 24. 12. 255. 267.]
399
400 min(cord_individual_obj[:, 3]) = 214.0
401 histol_G_best_iter[iter, 3] = 214.0
402 Begin iteration:
403
404 iter = 12
405 cord_individual_obj[indivial_i, :] = [ 0. 10. 295. 305.]
406 cord_individual_obj[indivial_i, :] = [ 1. 11. 322. 333.]
407 cord_individual_obj[indivial_i, :] = [ 2. 12. 344. 356.]
408 cord_individual_obj[indivial_i, :] = [ 3. 9. 265. 274.]
409 cord_individual_obj[indivial_i, :] = [ 4. 11. 262. 273.]
410 cord_individual_obj[indivial_i, :] = [ 5. 12. 296. 308.]
411 cord_individual_obj[indivial_i, :] = [ 6. 12. 275. 287.]
412 cord_individual_obj[indivial_i, :] = [ 7. 11. 301. 312.]
413 cord_individual_obj[indivial_i, :] = [ 8. 13. 360. 373.]
414 cord_individual_obj[indivial_i, :] = [ 9. 11. 275. 286.]
415 cord_individual_obj[indivial_i, :] = [ 10. 10. 376. 386.]

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416 cord_individual_obj[indivial_i,:] = [ 11. 11. 276. 287.]
417 cord_individual_obj[indivial_i,:] = [ 12. 11. 295. 306.]
418 cord_individual_obj[indivial_i,:] = [ 13. 10. 327. 337.]
419 cord_individual_obj[indivial_i,:] = [ 14. 12. 274. 286.]
420 cord_individual_obj[indivial_i,:] = [ 15. 13. 363. 376.]
421 cord_individual_obj[indivial_i,:] = [ 16. 11. 328. 339.]
422 cord_individual_obj[indivial_i,:] = [ 17. 11. 341. 352.]
423 cord_individual_obj[indivial_i,:] = [ 18. 11. 319. 330.]
424 cord_individual_obj[indivial_i,:] = [ 19. 11. 362. 373.]
425 cord_individual_obj[indivial_i,:] = [ 20. 11. 303. 314.]
426 cord_individual_obj[indivial_i,:] = [ 21. 11. 203. 214.]
427 cord_individual_obj[indivial_i,:] = [ 22. 10. 283. 293.]
428 cord_individual_obj[indivial_i,:] = [ 23. 14. 292. 306.]
429 cord_individual_obj[indivial_i,:] = [ 24. 11. 300. 311.]
430
431 min(cord_individual_obj[:,3]) = 214.0
432 histol_G_best_iter[iter,3] = 214.0
433 Begin iteration:
434
435 iter = 13
436 cord_individual_obj[indivial_i,:] = [ 0. 12. 301. 313.]
437 cord_individual_obj[indivial_i,:] = [ 1. 11. 266. 277.]
438 cord_individual_obj[indivial_i,:] = [ 2. 9. 199. 208.]
439 cord_individual_obj[indivial_i,:] = [ 3. 13. 231. 244.]
440 cord_individual_obj[indivial_i,:] = [ 4. 13. 285. 298.]
441 cord_individual_obj[indivial_i,:] = [ 5. 12. 278. 290.]
442 cord_individual_obj[indivial_i,:] = [ 6. 14. 239. 253.]
443 cord_individual_obj[indivial_i,:] = [ 7. 12. 217. 229.]
444 cord_individual_obj[indivial_i,:] = [ 8. 11. 292. 303.]
445 cord_individual_obj[indivial_i,:] = [ 9. 12. 295. 307.]
446 cord_individual_obj[indivial_i,:] = [ 10. 11. 203. 214.]
447 cord_individual_obj[indivial_i,:] = [ 11. 12. 235. 247.]
448 cord_individual_obj[indivial_i,:] = [ 12. 14. 271. 285.]
449 cord_individual_obj[indivial_i,:] = [ 13. 11. 282. 293.]
450 cord_individual_obj[indivial_i,:] = [ 14. 12. 263. 275.]
451 cord_individual_obj[indivial_i,:] = [ 15. 12. 242. 254.]
452 cord_individual_obj[indivial_i,:] = [ 16. 12. 223. 235.]
453 cord_individual_obj[indivial_i,:] = [ 17. 12. 258. 270.]
454 cord_individual_obj[indivial_i,:] = [ 18. 12. 322. 334.]
455 cord_individual_obj[indivial_i,:] = [ 19. 12. 274. 286.]
456 cord_individual_obj[indivial_i,:] = [ 20. 11. 325. 336.]
457 cord_individual_obj[indivial_i,:] = [ 21. 12. 339. 351.]
458 cord_individual_obj[indivial_i,:] = [ 22. 12. 243. 255.]
459 cord_individual_obj[indivial_i,:] = [ 23. 12. 305. 317.]
460 cord_individual_obj[indivial_i,:] = [ 24. 11. 285. 296.]
461
462 min(cord_individual_obj[:,3]) = 208.0
463 histol_G_best_iter[iter,3] = 208.0
464 Begin iteration:
465
466 iter = 14
467 cord_individual_obj[indivial_i,:] = [ 0. 10. 379. 389.]
468 cord_individual_obj[indivial_i,:] = [ 1. 10. 307. 317.]
469 cord_individual_obj[indivial_i,:] = [ 2. 12. 265. 277.]
470 cord_individual_obj[indivial_i,:] = [ 3. 13. 210. 223.]
471 cord_individual_obj[indivial_i,:] = [ 4. 14. 285. 299.]
472 cord_individual_obj[indivial_i,:] = [ 5. 10. 283. 293.]
473 cord_individual_obj[indivial_i,:] = [ 6. 12. 289. 301.]
474 cord_individual_obj[indivial_i,:] = [ 7. 11. 214. 225.]
475 cord_individual_obj[indivial_i,:] = [ 8. 12. 316. 328.]
476 cord_individual_obj[indivial_i,:] = [ 9. 12. 321. 333.]
477 cord_individual_obj[indivial_i,:] = [ 10. 10. 301. 311.]
478 cord_individual_obj[indivial_i,:] = [ 11. 12. 233. 245.]
479 cord_individual_obj[indivial_i,:] = [ 12. 11. 295. 306.]
480 cord_individual_obj[indivial_i,:] = [ 13. 10. 258. 268.]
481 cord_individual_obj[indivial_i,:] = [ 14. 12. 308. 320.]
482 cord_individual_obj[indivial_i,:] = [ 15. 15. 264. 279.]
483 cord_individual_obj[indivial_i,:] = [ 16. 13. 277. 290.]
484 cord_individual_obj[indivial_i,:] = [ 17. 13. 220. 233.]
485 cord_individual_obj[indivial_i,:] = [ 18. 13. 284. 297.]
486 cord_individual_obj[indivial_i,:] = [ 19. 10. 374. 384.]
487 cord_individual_obj[indivial_i,:] = [ 20. 10. 306. 316.]
488 cord_individual_obj[indivial_i,:] = [ 21. 9. 199. 208.]
489 cord_individual_obj[indivial_i,:] = [ 22. 12. 284. 296.]
490 cord_individual_obj[indivial_i,:] = [ 23. 10. 211. 221.]
491 cord_individual_obj[indivial_i,:] = [ 24. 11. 206. 217.]
492
493 min(cord_individual_obj[:,3]) = 208.0
494 histol_G_best_iter[iter,3] = 208.0
495 Begin iteration:
496
497 iter = 15
498 cord_individual_obj[indivial_i,:] = [ 0. 9. 199. 208.]
499 cord_individual_obj[indivial_i,:] = [ 1. 9. 296. 305.]

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500 cord_individual_obj[indivial_i,:] = [ 2. 11. 174. 185.]
501 cord_individual_obj[indivial_i,:] = [ 3. 10. 203. 213.]
502 cord_individual_obj[indivial_i,:] = [ 4. 10. 260. 270.]
503 cord_individual_obj[indivial_i,:] = [ 5. 12. 258. 270.]
504 cord_individual_obj[indivial_i,:] = [ 6. 11. 170. 181.]
505 cord_individual_obj[indivial_i,:] = [ 7. 12. 238. 250.]
506 cord_individual_obj[indivial_i,:] = [ 8. 10. 268. 278.]
507 cord_individual_obj[indivial_i,:] = [ 9. 13. 252. 265.]
508 cord_individual_obj[indivial_i,:] = [ 10. 11. 275. 286.]
509 cord_individual_obj[indivial_i,:] = [ 11. 10. 230. 240.]
510 cord_individual_obj[indivial_i,:] = [ 12. 15. 348. 363.]
511 cord_individual_obj[indivial_i,:] = [ 13. 11. 279. 290.]
512 cord_individual_obj[indivial_i,:] = [ 14. 11. 189. 200.]
513 cord_individual_obj[indivial_i,:] = [ 15. 10. 335. 345.]
514 cord_individual_obj[indivial_i,:] = [ 16. 12. 317. 329.]
515 cord_individual_obj[indivial_i,:] = [ 17. 13. 296. 309.]
516 cord_individual_obj[indivial_i,:] = [ 18. 12. 309. 321.]
517 cord_individual_obj[indivial_i,:] = [ 19. 11. 314. 325.]
518 cord_individual_obj[indivial_i,:] = [ 20. 11. 290. 301.]
519 cord_individual_obj[indivial_i,:] = [ 21. 11. 295. 306.]
520 cord_individual_obj[indivial_i,:] = [ 22. 9. 314. 323.]
521 cord_individual_obj[indivial_i,:] = [ 23. 10. 221. 231.]
522 cord_individual_obj[indivial_i,:] = [ 24. 11. 265. 276.]
523
524 min(cord_individual_obj[:, 3]) = 181.0
525 histol_G_best_iter[iter, 3] = 181.0
526 Begin iteration:
527
528 iter = 16
529 cord_individual_obj[indivial_i,:] = [ 0. 11. 200. 211.]
530 cord_individual_obj[indivial_i,:] = [ 1. 10. 280. 290.]
531 cord_individual_obj[indivial_i,:] = [ 2. 12. 292. 304.]
532 cord_individual_obj[indivial_i,:] = [ 3. 13. 216. 229.]
533 cord_individual_obj[indivial_i,:] = [ 4. 11. 269. 280.]
534 cord_individual_obj[indivial_i,:] = [ 5. 12. 211. 223.]
535 cord_individual_obj[indivial_i,:] = [ 6. 12. 277. 289.]
536 cord_individual_obj[indivial_i,:] = [ 7. 12. 214. 226.]
537 cord_individual_obj[indivial_i,:] = [ 8. 11. 274. 285.]
538 cord_individual_obj[indivial_i,:] = [ 9. 10. 236. 246.]
539 cord_individual_obj[indivial_i,:] = [ 10. 13. 254. 267.]
540 cord_individual_obj[indivial_i,:] = [ 11. 12. 222. 234.]
541 cord_individual_obj[indivial_i,:] = [ 12. 11. 170. 181.]
542 cord_individual_obj[indivial_i,:] = [ 13. 11. 288. 299.]
543 cord_individual_obj[indivial_i,:] = [ 14. 12. 221. 233.]
544 cord_individual_obj[indivial_i,:] = [ 15. 11. 320. 331.]
545 cord_individual_obj[indivial_i,:] = [ 16. 13. 243. 256.]
546 cord_individual_obj[indivial_i,:] = [ 17. 11. 203. 214.]
547 cord_individual_obj[indivial_i,:] = [ 18. 13. 222. 235.]
548 cord_individual_obj[indivial_i,:] = [ 19. 11. 266. 277.]
549 cord_individual_obj[indivial_i,:] = [ 20. 10. 195. 205.]
550 cord_individual_obj[indivial_i,:] = [ 21. 12. 249. 261.]
551 cord_individual_obj[indivial_i,:] = [ 22. 11. 294. 305.]
552 cord_individual_obj[indivial_i,:] = [ 23. 12. 267. 279.]
553 cord_individual_obj[indivial_i,:] = [ 24. 15. 315. 330.]
554
555 min(cord_individual_obj[:, 3]) = 181.0
556 histol_G_best_iter[iter, 3] = 181.0
557 Begin iteration:
558
559 iter = 17
560 cord_individual_obj[indivial_i,:] = [ 0. 12. 284. 296.]
561 cord_individual_obj[indivial_i,:] = [ 1. 13. 282. 295.]
562 cord_individual_obj[indivial_i,:] = [ 2. 11. 313. 324.]
563 cord_individual_obj[indivial_i,:] = [ 3. 11. 243. 254.]
564 cord_individual_obj[indivial_i,:] = [ 4. 12. 302. 314.]
565 cord_individual_obj[indivial_i,:] = [ 5. 12. 291. 303.]
566 cord_individual_obj[indivial_i,:] = [ 6. 14. 309. 323.]
567 cord_individual_obj[indivial_i,:] = [ 7. 12. 268. 280.]
568 cord_individual_obj[indivial_i,:] = [ 8. 11. 283. 294.]
569 cord_individual_obj[indivial_i,:] = [ 9. 13. 252. 265.]
570 cord_individual_obj[indivial_i,:] = [ 10. 13. 255. 268.]
571 cord_individual_obj[indivial_i,:] = [ 11. 10. 295. 305.]
572 cord_individual_obj[indivial_i,:] = [ 12. 13. 306. 319.]
573 cord_individual_obj[indivial_i,:] = [ 13. 15. 327. 342.]
574 cord_individual_obj[indivial_i,:] = [ 14. 13. 305. 318.]
575 cord_individual_obj[indivial_i,:] = [ 15. 11. 170. 181.]
576 cord_individual_obj[indivial_i,:] = [ 16. 14. 330. 344.]
577 cord_individual_obj[indivial_i,:] = [ 17. 11. 235. 246.]
578 cord_individual_obj[indivial_i,:] = [ 18. 14. 268. 282.]
579 cord_individual_obj[indivial_i,:] = [ 19. 11. 272. 283.]
580 cord_individual_obj[indivial_i,:] = [ 20. 12. 224. 236.]
581 cord_individual_obj[indivial_i,:] = [ 21. 11. 321. 332.]
582 cord_individual_obj[indivial_i,:] = [ 22. 10. 302. 312.]
583 cord_individual_obj[indivial_i,:] = [ 23. 13. 286. 299.]

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584     cord_individual_obj[indivial_i, :] = [ 24. 10. 297. 307.]
585
586     min(cord_individual_obj[:, 3]) = 181.0
587     historl_G_best_iter[iter, 3] = 181.0
588 Begin iteration:
589
590 iter = 18
591     cord_individual_obj[indivial_i, :] = [ 0. 11. 191. 202.]
592     cord_individual_obj[indivial_i, :] = [ 1. 11. 360. 371.]
593     cord_individual_obj[indivial_i, :] = [ 2. 12. 228. 240.]
594     cord_individual_obj[indivial_i, :] = [ 3. 11. 231. 242.]
595     cord_individual_obj[indivial_i, :] = [ 4. 12. 270. 282.]
596     cord_individual_obj[indivial_i, :] = [ 5. 11. 211. 222.]
597     cord_individual_obj[indivial_i, :] = [ 6. 14. 247. 261.]
598     cord_individual_obj[indivial_i, :] = [ 7. 10. 211. 221.]
599     cord_individual_obj[indivial_i, :] = [ 8. 11. 229. 240.]
600     cord_individual_obj[indivial_i, :] = [ 9. 11. 201. 212.]
601     cord_individual_obj[indivial_i, :] = [ 10. 12. 282. 294.]
602     cord_individual_obj[indivial_i, :] = [ 11. 11. 273. 284.]
603     cord_individual_obj[indivial_i, :] = [ 12. 13. 285. 298.]
604     cord_individual_obj[indivial_i, :] = [ 13. 13. 214. 227.]
605     cord_individual_obj[indivial_i, :] = [ 14. 10. 268. 278.]
606     cord_individual_obj[indivial_i, :] = [ 15. 11. 294. 305.]
607     cord_individual_obj[indivial_i, :] = [ 16. 11. 170. 181.]
608     cord_individual_obj[indivial_i, :] = [ 17. 12. 268. 280.]
609     cord_individual_obj[indivial_i, :] = [ 18. 10. 238. 248.]
610     cord_individual_obj[indivial_i, :] = [ 19. 12. 313. 325.]
611     cord_individual_obj[indivial_i, :] = [ 20. 12. 235. 247.]
612     cord_individual_obj[indivial_i, :] = [ 21. 10. 184. 194.]
613     cord_individual_obj[indivial_i, :] = [ 22. 12. 233. 245.]
614     cord_individual_obj[indivial_i, :] = [ 23. 11. 185. 196.]
615     cord_individual_obj[indivial_i, :] = [ 24. 12. 221. 233.]
616
617     min(cord_individual_obj[:, 3]) = 181.0
618     historl_G_best_iter[iter, 3] = 181.0
619 Begin iteration:
620
621 iter = 19
622     cord_individual_obj[indivial_i, :] = [ 0. 10. 239. 249.]
623     cord_individual_obj[indivial_i, :] = [ 1. 11. 170. 181.]
624     cord_individual_obj[indivial_i, :] = [ 2. 12. 245. 257.]
625     cord_individual_obj[indivial_i, :] = [ 3. 12. 231. 243.]
626     cord_individual_obj[indivial_i, :] = [ 4. 12. 449. 461.]
627     cord_individual_obj[indivial_i, :] = [ 5. 13. 247. 260.]
628     cord_individual_obj[indivial_i, :] = [ 6. 14. 295. 309.]
629     cord_individual_obj[indivial_i, :] = [ 7. 13. 279. 292.]
630     cord_individual_obj[indivial_i, :] = [ 8. 11. 256. 267.]
631     cord_individual_obj[indivial_i, :] = [ 9. 12. 246. 258.]
632     cord_individual_obj[indivial_i, :] = [ 10. 13. 260. 273.]
633     cord_individual_obj[indivial_i, :] = [ 11. 11. 265. 276.]
634     cord_individual_obj[indivial_i, :] = [ 12. 14. 279. 293.]
635     cord_individual_obj[indivial_i, :] = [ 13. 12. 331. 343.]
636     cord_individual_obj[indivial_i, :] = [ 14. 13. 206. 219.]
637     cord_individual_obj[indivial_i, :] = [ 15. 12. 287. 299.]
638     cord_individual_obj[indivial_i, :] = [ 16. 14. 327. 341.]
639     cord_individual_obj[indivial_i, :] = [ 17. 11. 257. 268.]
640     cord_individual_obj[indivial_i, :] = [ 18. 11. 253. 264.]
641     cord_individual_obj[indivial_i, :] = [ 19. 11. 244. 255.]
642     cord_individual_obj[indivial_i, :] = [ 20. 11. 207. 218.]
643     cord_individual_obj[indivial_i, :] = [ 21. 13. 239. 252.]
644     cord_individual_obj[indivial_i, :] = [ 22. 12. 265. 277.]
645     cord_individual_obj[indivial_i, :] = [ 23. 11. 207. 218.]
646     cord_individual_obj[indivial_i, :] = [ 24. 14. 309. 323.]
647
648     min(cord_individual_obj[:, 3]) = 181.0
649     historl_G_best_iter[iter, 3] = 181.0
650 Begin iteration:
651
652 iter = 20
653     cord_individual_obj[indivial_i, :] = [ 0. 12. 213. 225.]
654     cord_individual_obj[indivial_i, :] = [ 1. 10. 249. 259.]
655     cord_individual_obj[indivial_i, :] = [ 2. 11. 192. 203.]
656     cord_individual_obj[indivial_i, :] = [ 3. 13. 199. 212.]
657     cord_individual_obj[indivial_i, :] = [ 4. 11. 170. 181.]
658     cord_individual_obj[indivial_i, :] = [ 5. 12. 172. 184.]
659     cord_individual_obj[indivial_i, :] = [ 6. 12. 233. 245.]
660     cord_individual_obj[indivial_i, :] = [ 7. 11. 223. 234.]
661     cord_individual_obj[indivial_i, :] = [ 8. 12. 217. 229.]
662     cord_individual_obj[indivial_i, :] = [ 9. 11. 235. 246.]
663     cord_individual_obj[indivial_i, :] = [ 10. 11. 290. 301.]
664     cord_individual_obj[indivial_i, :] = [ 11. 12. 302. 314.]
665     cord_individual_obj[indivial_i, :] = [ 12. 11. 240. 251.]
666     cord_individual_obj[indivial_i, :] = [ 13. 13. 208. 221.]
667     cord_individual_obj[indivial_i, :] = [ 14. 11. 212. 223.]

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668 cord_individual_obj[indivial_i,:] = [ 15. 13. 254. 267.]
669 cord_individual_obj[indivial_i,:] = [ 16. 11. 249. 260.]
670 cord_individual_obj[indivial_i,:] = [ 17. 12. 239. 251.]
671 cord_individual_obj[indivial_i,:] = [ 18. 14. 292. 306.]
672 cord_individual_obj[indivial_i,:] = [ 19. 14. 303. 317.]
673 cord_individual_obj[indivial_i,:] = [ 20. 10. 220. 230.]
674 cord_individual_obj[indivial_i,:] = [ 21. 12. 156. 168.]
675 cord_individual_obj[indivial_i,:] = [ 22. 13. 226. 239.]
676 cord_individual_obj[indivial_i,:] = [ 23. 10. 162. 172.]
677 cord_individual_obj[indivial_i,:] = [ 24. 11. 235. 246.]
678
679 min(cord_individual_obj[:, 3]) = 168.0
680 historl_G_best_iter[iter, 3] = 168.0
681 Iteration calculate over
682
683
684
685
686 All item are in Bin and:
687 Bin area = 1080
688 Real_area = 263.0
689 Proportion_of_area = 0.24351851851851852
690 BEST_CHROM =
691 berth: [22.5 13.5 24.5 21.5 18.5 17. 8. 4.5 3. 25. 17.5 25.5 2.5 20.5
692 11. 16.5 11. 12.5 2.5 6.5]
693 time: [10. 6. 6. 8. 6. 3. 7. 3. 5. 4. 7. 0. 7. 0. 3. 0. 0. 2.
694 0. 0.]
695 num_QC: [2. 5. 4. 4. 3. 2. 4. 4. 6. 2. 2. 2. 3. 2. 3. 3. 2. 8. 2. 3.]
696 Objective function values and some other indicators:
697 Obj0 = 12.00 Obj1 = 156.00 Obj0 + Obj1 = 168.00
698 Total movement of crane: 20.00
699 Total waiting time in berth position: 77.00
700 Total index of q during berthing: 1467.00
701 Specific arrangement for each vessel:
702 V_id: 0 li: 7.0 xi: 22.5 bow of i: 19.0 tail of i: 26.0 gama_i0: 10.0 gama_i1: work
703 12.0 load_i: 120.0 gama_i1 + 1: 13.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 120.0
704 .0 V_id: 1 li: 5.0 xi: 13.5 bow of i: 11.0 tail of i: 16.0 gama_i0: 6.0 gama_i1: 7
705 .0 load_i: 140.0 gama_i1 + 1: 8.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 140.0 work
706 .0 V_id: 2 li: 7.0 xi: 24.5 bow of i: 21.0 tail of i: 28.0 gama_i0: 6.0 gama_i1: 7
707 .0 load_i: 120.0 gama_i1 + 1: 8.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 120.0 work
708 .0 V_id: 3 li: 5.0 xi: 21.5 bow of i: 19.0 tail of i: 24.0 gama_i0: 8.0 gama_i1: 9
709 .0 load_i: 160.0 gama_i1 + 1: 10.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 160.0 work
710 .0 V_id: 4 li: 5.0 xi: 18.5 bow of i: 16.0 tail of i: 21.0 gama_i0: 6.0 gama_i1: 6
711 .0 load_i: 60.0 gama_i1 + 1: 7.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 60.0 work
712 .0 V_id: 5 li: 8.0 xi: 17.0 bow of i: 13.0 tail of i: 21.0 gama_i0: 3.0 gama_i1: 5
713 .0 load_i: 100.0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 100.0 work
714 .0 V_id: 6 li: 6.0 xi: 8.0 bow of i: 5.0 tail of i: 11.0 gama_i0: 7.0 gama_i1: 8.0
715 .0 load_i: 160.0 gama_i1 + 1: 9.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 160.0 work load_i:
716 .0 V_id: 7 li: 9.0 xi: 4.5 bow of i: 0.0 tail of i: 9.0 gama_i0: 3.0 gama_i1: 4.0
717 .0 load_i: 160.0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 160.0 work load_i:
718 .0 V_id: 8 li: 6.0 xi: 3.0 bow of i: 0.0 tail of i: 6.0 gama_i0: 5.0 gama_i1: 6.0
719 .0 load_i: 140.0 gama_i1 + 1: 7.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 140.0 work load_i:
720 .0 V_id: 9 li: 8.0 xi: 25.0 bow of i: 21.0 tail of i: 29.0 gama_i0: 4.0 gama_i1: 5
721 .0 load_i: 80.0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 80.0 work
722 .0 V_id: 10 li: 3.0 xi: 17.5 bow of i: 16.0 tail of i: 19.0 gama_i0: 7.0 gama_i1: 11
723 .0 load_i: 160.0 gama_i1 + 1: 11.0 gama_i1 - gama_i0: 3.0 duration_time_i: 4.0 demand_i: 160.0 work
724 .0 V_id: 11 li: 7.0 xi: 25.5 bow of i: 22.0 tail of i: 29.0 gama_i0: 0.0 gama_i1: 11
725 .0 load_i: 140.0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 3.0 duration_time_i: 4.0 demand_i: 140.0 work
726 .0 V_id: 12 li: 5.0 xi: 2.5 bow of i: 0.0 tail of i: 5.0 gama_i0: 7.0 gama_i1: 9.0
727 .0 load_i: 160.0 gama_i1 + 1: 10.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 160.0 work
728 .0 V_id: 13 li: 3.0 xi: 20.5 bow of i: 19.0 tail of i: 22.0 gama_i0: 0.0 gama_i1: 11
729 .0 load_i: 100.0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 100.0 work
730 .0 V_id: 14 li: 4.0 xi: 11.0 bow of i: 9.0 tail of i: 13.0 gama_i0: 3.0 gama_i1: 11
731 .0 load_i: 140.0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 140.0 work
732 .0 V_id: 15 li: 5.0 xi: 16.5 bow of i: 14.0 tail of i: 19.0 gama_i0: 0.0 gama_i1: 11
733 .0 load_i: 100.0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 100.0 work
734 .0 V_id: 16 li: 6.0 xi: 11.0 bow of i: 8.0 tail of i: 14.0 gama_i0: 0.0 gama_i1: 11
735 .0 load_i: 100.0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 60.0 work

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unknown

718	load_i: 60.0	work load gap_i: 0					
719	V_id: 17 : 2.0	li: 9.0	xi: 12.5	bow of i: 8.0	tail of i: 17.0	gama_i0: 2.0	gama_i1 work
	load_i: 160.0	gama_i1 + 1: 3.0	gama_i1 - gama_i0: 0.0		duration_time_i: 1.0	demand_i: 160.0	
720	V_id: 18 80.0	li: 5.0	xi: 2.5	bow of i: 0.0	tail of i: 5.0	gama_i0: 0.0	gama_i1: 1.0
	work load gap_i: 0	gama_i1 + 1: 2.0	gama_i1 - gama_i0: 1.0		duration_time_i: 2.0	demand_i: 80.0	work load_i:
721	V_id: 19 140.0	li: 3.0	xi: 6.5	bow of i: 5.0	tail of i: 8.0	gama_i0: 0.0	gama_i1: 2.0
	work load gap_i: 0	gama_i1 + 1: 3.0	gama_i1 - gama_i0: 2.0		duration_time_i: 3.0	demand_i: 140.0	work load_i:
722	Algorithm finished and the total CPU time: 534 s						
723	End						
724							
725							