Testing n\_1 with all n\_\* : 4 FN

Testing 1\_1 with all : expected answers for all

Testing 1\_2 with all :

\*\*\*\*\*\*\*\*Test\*\*\*\*\*\*\* (48)

Pair:

4 3 28

4 3 27

Pair:

12 199 142

15 199 141

Pair:

18 1 41

18 1 40

Pair:

21 133 341

23 133 340

Pair:

30 207 136

34 207 135

Pair:

33 210 0

37 209 -1

Missing minutia match ^

Pair:

33 211 180

37 210 179

33 211 0

37 209 -1

Error: rotation (particular case == 0)

Pair:

34 92 183

36 91 182

Pair:

45 212 134

49 211 133

Pair:

51 121 172

53 120 171

Pair:

59 214 131

63 213 130

Pair:

60 157 326

63 156 325

Pair:

65 114 339

67 113 338

Pair:

75 219 132

79 218 131

Pair:

87 222 135

91 221 134

Pair:

103 224 127

107 222 126

Pair:

109 131 321

111 129 320

Pair:

109 214 306

113 212 305

Pair:

121 165 302

124 163 301

Pair:

122 9 236

122 7 235

Pair:

123 192 295

126 190 294

Pair:

143 75 234

144 73 233

Pair:

144 89 287

145 87 286

Pair:

144 132 289

146 130 288

Pair:

148 83 257

149 80 256

Pair:

160 87 266

161 84 265

Pair:

162 120 275

164 117 274

Pair:

179 3 254

179 0 253

Pair:

182 184 279

185 181 278

Pair:

183 225 285

187 222 284

Pair:

194 62 74

195 59 73

Pair:

206 187 278

209 183 277

Pair:

212 14 262

212 10 261

Pair:

214 30 268

214 26 267

Pair:

219 42 68

220 38 67

Pair:

222 29 89

222 25 88

Pair:

233 37 67

234 33 66

Pair:

235 85 237

236 81 236

Pair:

240 102 248

242 98 247

Pair:

247 125 249

249 121 248

Pair:

256 135 251

258 131 250

Pair:

258 11 73

258 7 72

Pair:

287 10 55

287 5 54

Pair:

309 14 43

309 9 42

Pair:

318 1 56

318 -4 55

Pair:

318 154 64

321 157 63

Pair:

318 163 64

322 164 59

Pair:

319 134 61

321 136 56

Pair:

319 170 60

322 174 54

**1\_1 to all without particular case slope == 0**

k = -1

Matching: 47

Compare 1\_1 with 1\_1. Expected match: false Computed match: true

k = 2

Matching: 21

Compare 1\_1 with 1\_2. Expected match: false Computed match: true

k = 1

Matching: 24

Compare 1\_1 with 1\_3. Expected match: false Computed match: true

k = 0

Matching: 23

Compare 1\_1 with 1\_4. Expected match: false Computed match: true

k = 0

Matching: 24

Compare 1\_1 with 1\_5. Expected match: false Computed match: true

k = -1

Matching: 20

Compare 1\_1 with 1\_6. Expected match: false Computed match: true

k = 0

Matching: 30

Compare 1\_1 with 1\_7. Expected match: false Computed match: true

k = 1

Matching: 20

Compare 1\_1 with 1\_8. Expected match: false Computed match: true

**1\_1 to all with particular case slope == 0**

k = -1

Matching: 48

Compare 1\_1 with 1\_1. Expected match: false Computed match: true

k = 2

Matching: 21

Compare 1\_1 with 1\_2. Expected match: false Computed match: true

k = 1

Matching: 24

Compare 1\_1 with 1\_3. Expected match: false Computed match: true

k = 0

Matching: 23

Compare 1\_1 with 1\_4. Expected match: false Computed match: true

k = 0

Matching: 24

Compare 1\_1 with 1\_5. Expected match: false Computed match: true

k = -1

Matching: 20

Compare 1\_1 with 1\_6. Expected match: false Computed match: true

k = 0

Matching: 30

Compare 1\_1 with 1\_7. Expected match: false Computed match: true

k = 1

Matching: 20

Compare 1\_1 with 1\_8. Expected match: false Computed match: true

\*\*\*\*\*\*\*\*Test\*\*\*\*\*\*\* (21)

Pair:

14 45 23

10 43 23

Pair:

25 185 156

25 187 146

Pair:

29 31 23

31 28 38

Pair:

49 15 32

48 17 37

Pair:

65 11 43

68 7 47

Pair:

121 1 46

118 -2 60

Pair:

133 1 50

136 -2 67

Pair:

319 80 57

321 83 67

Pair:

319 208 76

316 205 82

Pair:

320 120 65

321 118 66

Pair:

320 162 64

319 164 76

Pair:

320 185 71

320 185 74

Pair:

321 11 56

319 9 62

Pair:

321 64 46

321 61 64

Pair:

321 87 53

321 83 67

Pair:

321 87 53

322 90 67

Pair:

321 108 57

321 107 64

Pair:

321 127 55

321 127 46

Pair:

321 137 55

321 142 74

Pair:

321 149 60

320 153 76

Pair:

321 195 66

319 196 75

k = 1

Matching: 21

Compare 1\_5 with 2\_3. Expected match: true Computed match: true

k = -1

Matching: 49

Compare 1\_1 with 1\_1. Expected match: true Computed match: true

k = 2

**Matching: 21 ( should be 20 )**

Compare 1\_1 with 1\_2. Expected match: true Computed match: true

k = 1

Matching: 24

Compare 1\_1 with 1\_3. Expected match: true Computed match: true

k = 0

Matching: 23

Compare 1\_1 with 1\_4. Expected match: true Computed match: true

k = 0

Matching: 24

Compare 1\_1 with 1\_5. Expected match: true Computed match: true

k = -1

Matching: 20

Compare 1\_1 with 1\_6. Expected match: true Computed match: true

k = 0

Matching: 30

Compare 1\_1 with 1\_7. Expected match: true Computed match: true

k = 1

**Matching: 20 ( should be 21 )**

Compare 1\_1 with 1\_8. Expected match: true Computed match: true

Matching: 14

Compare 1\_1 with 2\_1. Expected match: false Computed match: false

Matching: 14

Compare 1\_1 with 2\_2. Expected match: false Computed match: false

Matching: 14

Compare 1\_1 with 2\_3. Expected match: false Computed match: false

Matching: 13

Compare 1\_1 with 2\_4. Expected match: false Computed match: false

Matching: 13

Compare 1\_1 with 2\_5. Expected match: false Computed match: false

Matching: 15

Compare 1\_1 with 2\_6. Expected match: false Computed match: false

Matching: 15

Compare 1\_1 with 2\_7. Expected match: false Computed match: false

Matching: 13

Compare 1\_1 with 2\_8. Expected match: false Computed match: false

Matching: 7

Compare 1\_1 with 3\_1. Expected match: false Computed match: false

Matching: 7

Compare 1\_1 with 3\_2. Expected match: false Computed match: false

Matching: 5

Compare 1\_1 with 3\_3. Expected match: false Computed match: false

Matching: 4

Compare 1\_1 with 3\_4. Expected match: false Computed match: false

Matching: 5

Compare 1\_1 with 3\_5. Expected match: false Computed match: false

Matching: 7

Compare 1\_1 with 3\_6. Expected match: false Computed match: false

Matching: 5

Compare 1\_1 with 3\_7. Expected match: false Computed match: false

Matching: 8

Compare 1\_1 with 3\_8. Expected match: false Computed match: false

Matching: 8

Compare 1\_1 with 4\_1. Expected match: false Computed match: false

Matching: 14

Compare 1\_1 with 4\_2. Expected match: false Computed match: false

Matching: 9

Compare 1\_1 with 4\_3. Expected match: false Computed match: false

Matching: 16

Compare 1\_1 with 4\_4. Expected match: false Computed match: false

Matching: 12

Compare 1\_1 with 4\_5. Expected match: false Computed match: false

Matching: 9

Compare 1\_1 with 4\_6. Expected match: false Computed match: false

**Matching: 9 ( should be 10 )**

Compare 1\_1 with 4\_7. Expected match: false Computed match: false

Matching: 11

Compare 1\_1 with 4\_8. Expected match: false Computed match: false

I have already posted about this but i find i am still unable to find the problem. Some of my matching minutiae counts are slightly different to the ones in the correct results.

I dont believe this is due to the actual finding of the minutiae as i find the correct number for 1\_1 for instance (66) yet i am still missing 2 matchings for 1\_1 with 1\_1, so it is probably in the matching steps that something is going wrong.

For 1\_1 with 1\_1 my missing minutiae pairs are the following:

[33, 210, 0] with [37, 209, -1]

[33,  211,  0]  with [37,  209,  -1]

These two minutiae ([33, 210, 0] and [33,  211,  0]) are indeed found by my program but are not matched to the resulting minutia after rotation ([37, 209, -1]) because my program computes ([37, 209, 359]).