```
X[1..N] = Reference RNA 3D module (array of residues)
Y[1..M] =
            Query
                   RNA 3D module (array of residues)
X5 = 5-atom representations of residues from X
Y5 = 5-atom representations of residues from Y
X3 = 3-atom representations of residues from X
Y3 = 3-atom representations of residues from Y
MATCHRANGE = 3.0 Å
Xcm = centers of mass of residues from X5
Ycm = centers of mass of residues from Y5
for i in 1..N:
  for j in 1..M:
    TransformMatrix1 = KABSCH([(X5[i],Y5[j])])
    Ycm' = Ycm * TransformMatrix1
    #MCS: mutually closest subset of matched residues
    MCS = [(r,s) \mid d(Xcm[r], Ycm'[s])
                   == min(d(Xcm[r], Ycm'[k]) for k in 1..M)
                   == min(d(Xcm[k],Ycm'[s]) for k in 1..N)
                   < MATCHRANGE 1
    TransformMatrix2 = KABSCH([(X3[r],Y3[s])) for r,s in MCS])
    X3mcs = [X3[r] \text{ for } r,s \text{ in MCS}]
    Y3mcs = [Y3[s] \text{ for r,s in MCS}]
    Y3mcs' = Y3mcs * TransformMatrix2
    Υ'
           = Y * TransformMatrix2
    yield SIZE(MCS), RMSD(X3mcs, Y3mcs'), Y'
```