Point A is Ni Morgan Nance Point B is Cai Hw #2 >z Point C is Ci point Dis No+1 Q #1 Ni Colonia point (1 (0,0,0) by definition Ci point B: (-1.5,0,0) down x-axis by C-C bond length Cxi point A: (-lcos O, lsin O, 0) O=115° Ni (-1.3·cos (115°), 1.3·sin (115°), 0) (0.466, 1.21,0) point 0: (-loso, lin Ocoso, lsin Osino) d=1.3 N_{i+1} (-1.3 cos (115°), 1.3·sin(115°)·cos(-126.1°), 1.3·sin(115°)·sin(-126.19) Nil = D = (0.634, -0.800, -1.098) xM but couldn't figure out M rotation matrix

- Ql.b. I would translate the xyz plane to the next carbonyl carbon and recalculate the xyz coordinates

 For the next N atom. This would repeat using the previous residue's repeat using the previous residue's (2,0, x) coordinates to answer the next.
- Q I.d. Without the M rotation matrix, the Ni+1 is in the wrong spot.

 I also had a problem with the C and Cx atoms being in the wrong spot.

ATOM N	1	N	ALA A	1	0.466	1.210	0.000	1.00 39.26	
ATOM C	2	CA	ALA A	1	-1.500	0.000	0.000	1.00 37.65	
ATOM C	3	С	ALA A	1	0.000	0.000	0.000	1.00 40.25	
ATOM N END	4	N	ALA A	2	0.634	-0.800	-1.098	1.00 41.55	

