

R1, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R2, R20, R3, R4, R5, R6, R7, R8, R9 OP: V1, V2, X1, X2, Y1, Y2, Z1, Z2  
species: V1, V2, X1, X2, Y1, Y2, Z1, Z2  
{V1, V2, X1, X2, Y1, Y2, Z1, Z2}