A(0,0,0), B(1,17,16), C(7,20,13), D(10,10,0), E(2,9,7), F(4,8,4), G(16,22,6), H(15,15,0), I(18,28,10), J(27,31,4), L(24,24,0), M(18,21,2), K(32,36,4), N(28,28,0), O(38,38,0)，P(47,47,0), Q(32,45,13).

A->D->H->L->N->O->P