Algorithm 1: Ant Solution

Function *antSolution*$(V = \{D, C\}, K, \tau, \alpha, \beta)$
  $V_{free} = C$;
  while $V_{free} \neq \emptyset$ **do**
    $vt \leftarrow$ selectVehicleType(V_{free}, K, τ)
    $d \leftarrow$ selectDepot(vt, V_{free}, K, τ)
    $v \leftarrow$ selectVehicle$(vt, d, V_{free}, K, \tau)$
    $pos \leftarrow$ vehicle's position
    $k \leftarrow$ selectCluster$(vt, d, v, pos, v_{free}, K, \tau, \alpha, \beta)$
    $V_{\text{candidates}} \leftarrow V_{\text{free}} \cap K_k^{(pos)}$
    $c \leftarrow$ selectCustomer$(vt, d, pos, V_{candidates}, \tau, \alpha, \beta)$
    if $v_{load} < c^{(demand)}$ **then**
      $R_d^{(vt)} = R_d^{(vt)} + \{d\}$
      $q_v = vt_{capacity}$
    $R_d^{vt} = R_d^{vt} + \{c\}$
    $v_{load} = v_{load} - c^{(demand)}$
    $V_{\text{free}} \leftarrow V_{\text{free}} - \{c\}$
    if $vt = drone$ **then**
      $R_d^{vt} = R_d^{vt} + \{d\}$
      $q_v = drone_{capacity}$
  foreach $d \in D$ *and* $vt \in VT$ **do** //Vehicles return to their depots
    $R_d^{vt} = R_d^{vt} + \{d\}$
  return $R = \{R_1^1, R_2^1, ..., R_2^3, R_3^3, R_D^{VT}\}$