function ALIGN(*Image feature points, Model feature points*) **returns** a solution or failure

loop do
  choose an untried triplet $p_{i_1}, p_{i_2}, p_{i_3}$ from image
  if no untried triplets left **then return** failure
  while there are still untried model triplets left **do**
    choose an untried triplet $\mu_{j_1}, \mu_{j_2}, \mu_{j_3}$ from model
    $Q \leftarrow$ FIND-TRANSFORM($p_{i_1}, p_{i_2}, p_{i_3}, \mu_{j_1}, \mu_{j_2}, \mu_{j_3}$)
    if projection according to Q explains image **then**
      return (success, Q)
  end
end