Pseudocode

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Algorithm 1 checkCyclePath

Input: A $CyclePath$ and all feature points P.
Output: $True$ or $False$.

for each point $p_i \in P$ **and** $\notin CyclePath$ **do**
  if p_i is on the edge of the cycle by the $CyclePath$ **then**
    return $False$
  else if p_i is inside the cycle region of the $CyclePath$ **then**
    return $False$
  end if
end for
for each point $c_{1_j} \in CyclePath$ **do**
  for each point $c_{2_k} \in CyclePath$ **and** non-adjacent with c_{1_j} **do**
    if c_{1_j} connects with c_{2_k} **then**
      if the connecting line of $c_{1_j}c_{2_k}$ is inside the cycle region of the $CyclePath$ **then**
        return $False$
      end if
    end if
  end for
end for
return $True$