```
def naive_triangle_counting():
        triangles = 0
        for u in range(n):
                for v in adj_list[u]:
                        triangles = triangles + len(set(adj_list[u]).intersection(set(adj_list[v])))
        # print(int(triangles/6))
def improved_triangle_counting():
        directed_adj_list = [[] for _ in range(n)]
        for u in range (n):
                for v in adj_list[u]:
                        if len(adj_list[v]) < len(adj_list[u]) or (len(adj_list[v]) ==
len(adj_list[u]) and v < u:
                                directed_adj_list[u].append(v)
        triangles = 0
        for u in range(n):
                nbr_set_of_u = set(directed_adj_list[u])
                for v in directed adj list[u]:
                                for w in directed adj list[v]:
                                         if (w in nbr set of u):
                                                 triangles += 1
                                                 print("<"+str(u)+", "+str(v)+", "+str(w)+">")
        print(triangles)
improved triangle counting()
# optional
# improved version?
```