**Research Material**

*Graph*

<https://towardsdatascience.com/10-graph-algorithms-visually-explained-e57faa1336f3>

1. why are we using adjacency list?  
   - non complete graph has sparse edges. Now if a graph is sparse and we use matrix representation then most of the matrix cells remain unused which leads to the waste of memory. Thus, we usually don't use matrix representation for sparse graphs. We prefer adjacency list.