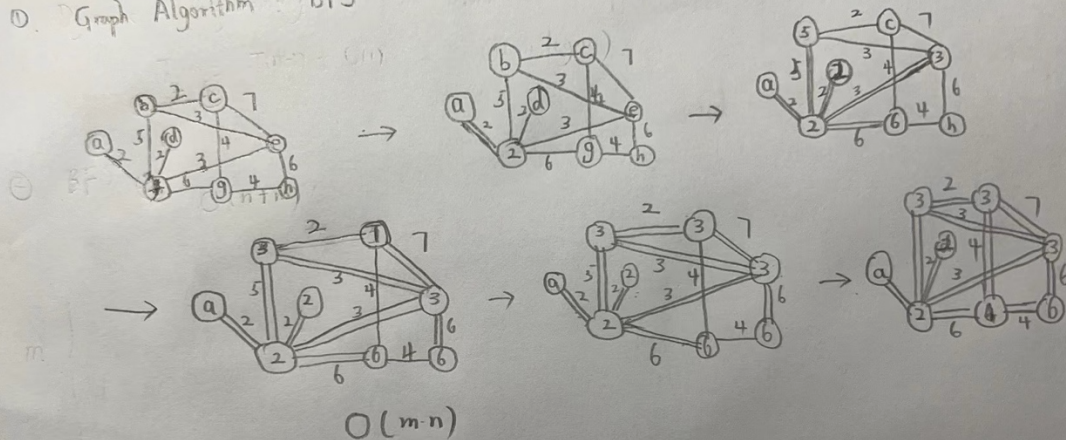


Q2: ① Graph Algorithm : BFS



② Merge Sort and Greedy Strategy

For all the edges s_1, s_2, \dots, s_m

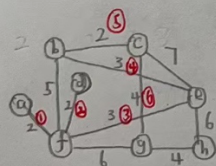
Sort the edges by the weight in increasing order

Construct a $m \times m$ matrix M ,

$M[i][j] = 1$ if the $s[i]$ and $s[j]$ are the edges from a node
else 0

Start from s_1 that s_1 is an edge of s with minimum weight.

Using Greedy Strategy to search all the edges according to ordered sequence and M



41 x /

41 = 190
= 23