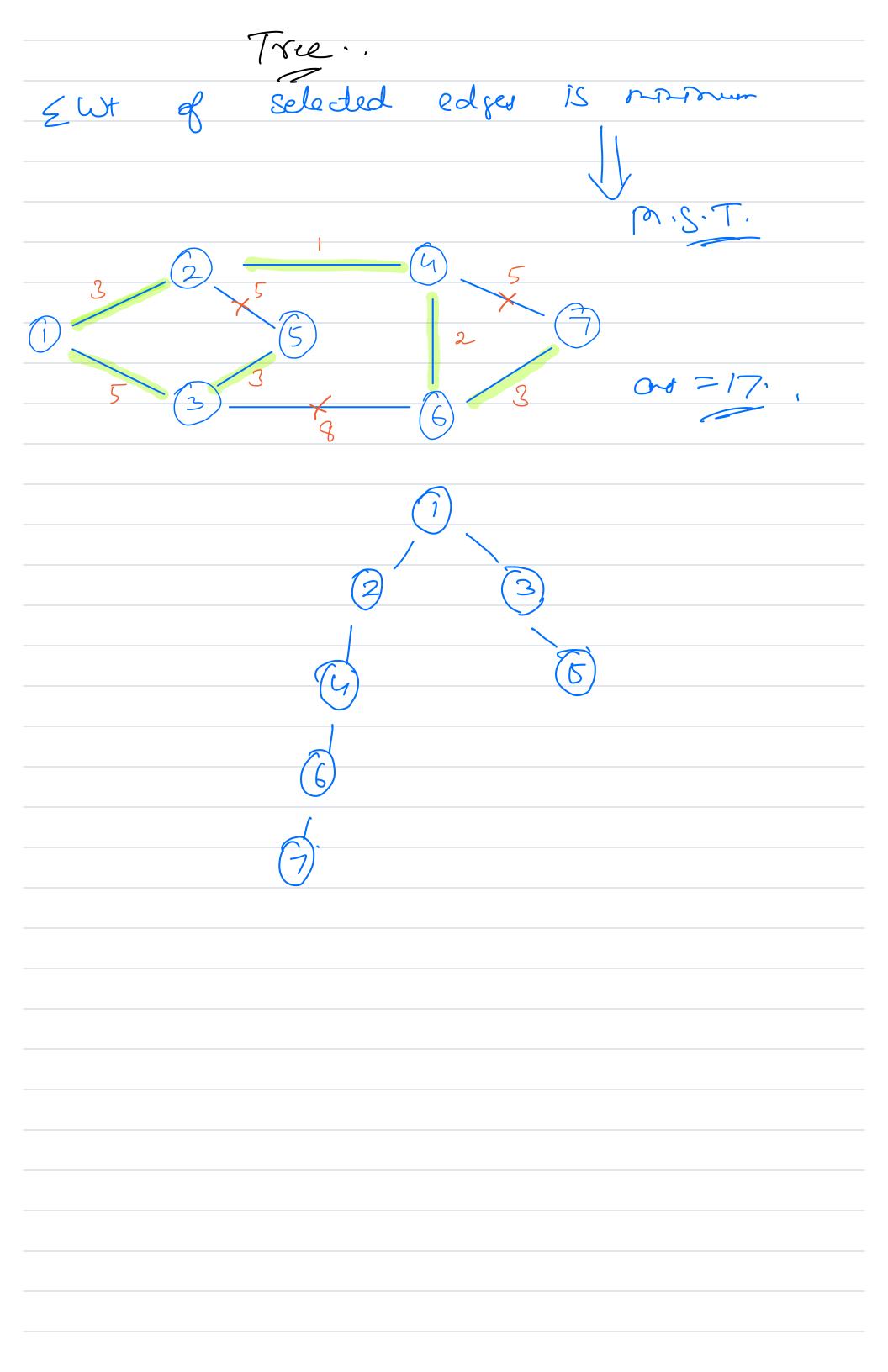
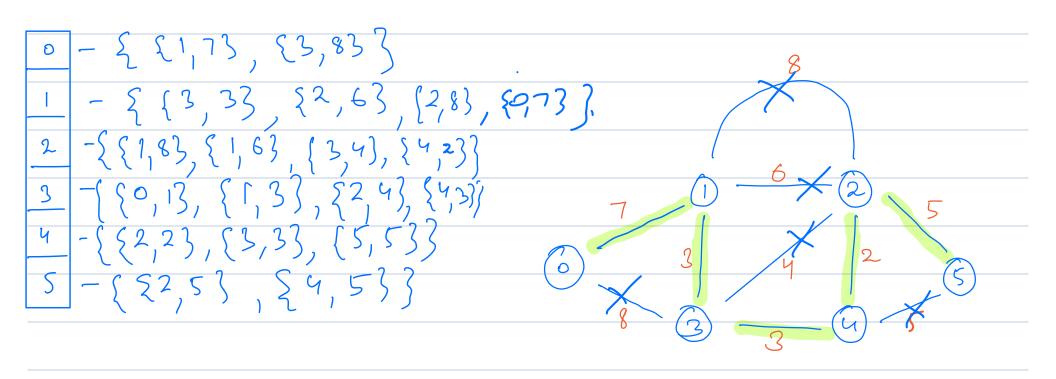
Today's Agendo		Starting	
mr	nimum S	spanning Truskal's n's Aljo	ree
	a) Kr	uskal's	1-1100
	P) Les	ms Algo	
	c cbco'c		
2 11	1,710 x 7	Algorithm	

Sir Given N Islands and cost of Construction of a broidge blue multiple pair of Islands. Find minimum cost of construction required such that it is possible to travel from one Island to any other island via bridger.

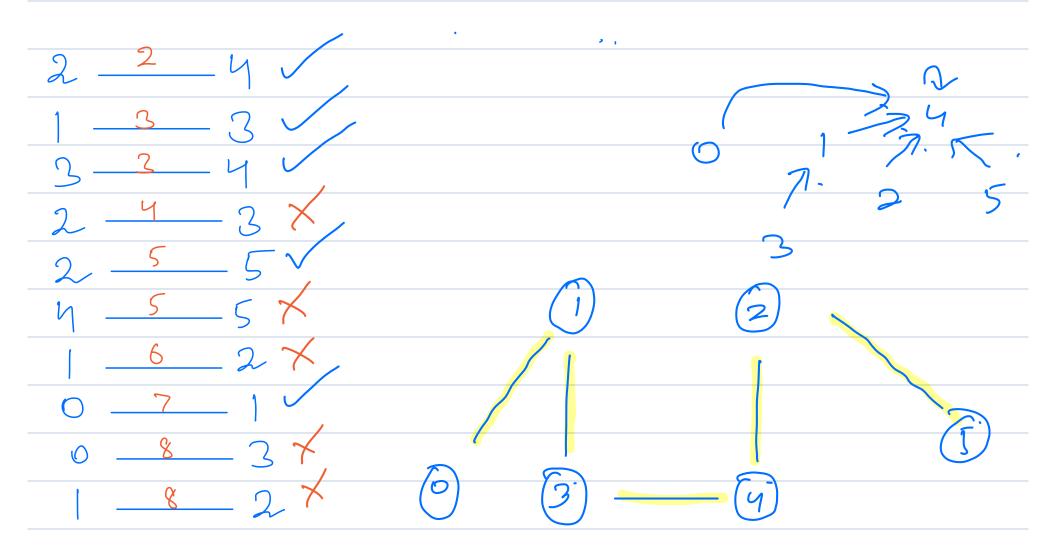
Signature of possible, relum-1. N=1, E=9EX!-3 -8 -6 2 \_ 5 6 \_ 3 \_ 7 3 -3 -5 All islands must be corrected each other. Graph mout be convected. Cost => mn. no. of bordyes Obs. 2: consouct. (N-1) edges.



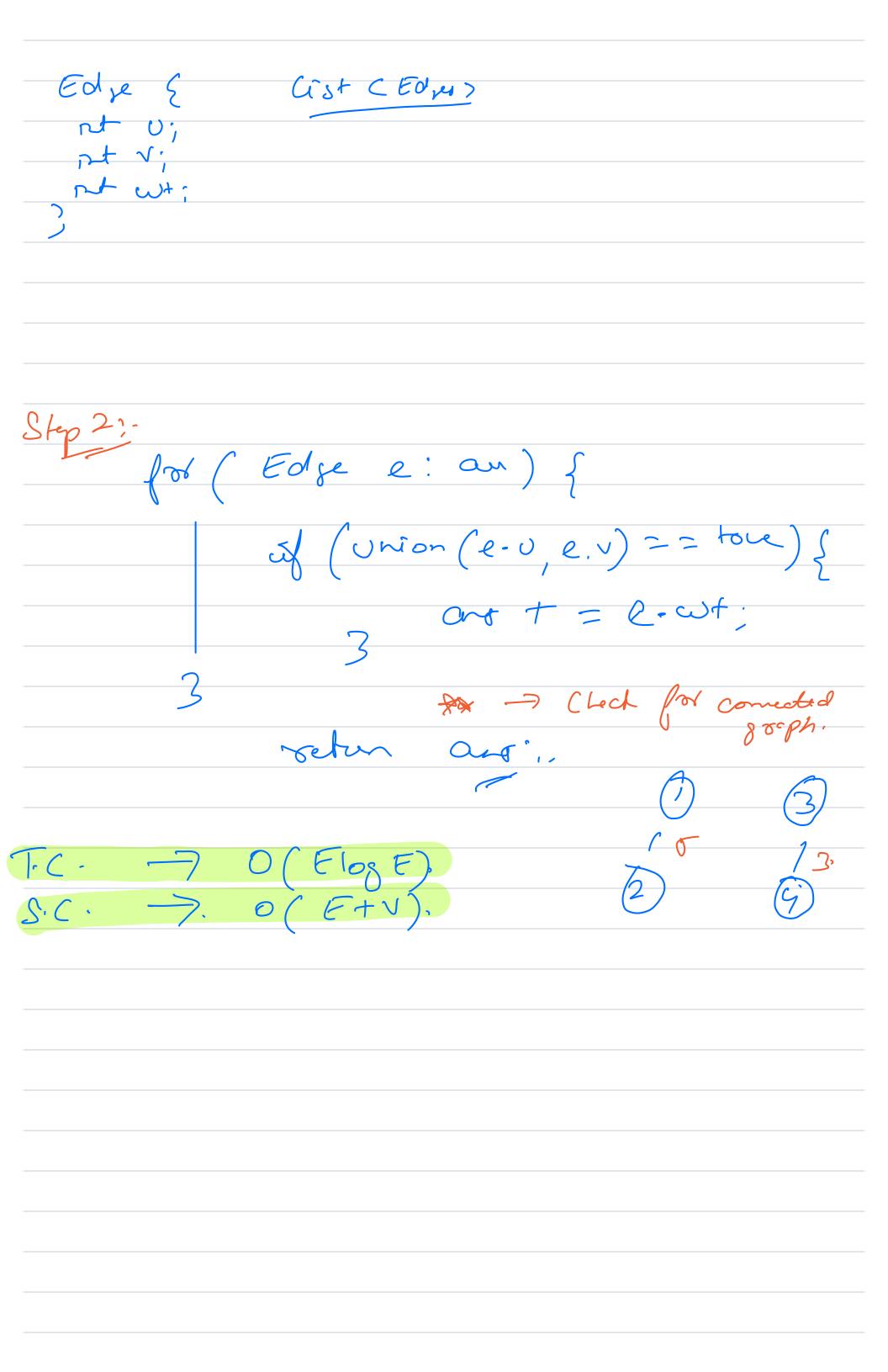
## Kruskal's Aljorithm



1) Sort the edges of the graph order of ut.



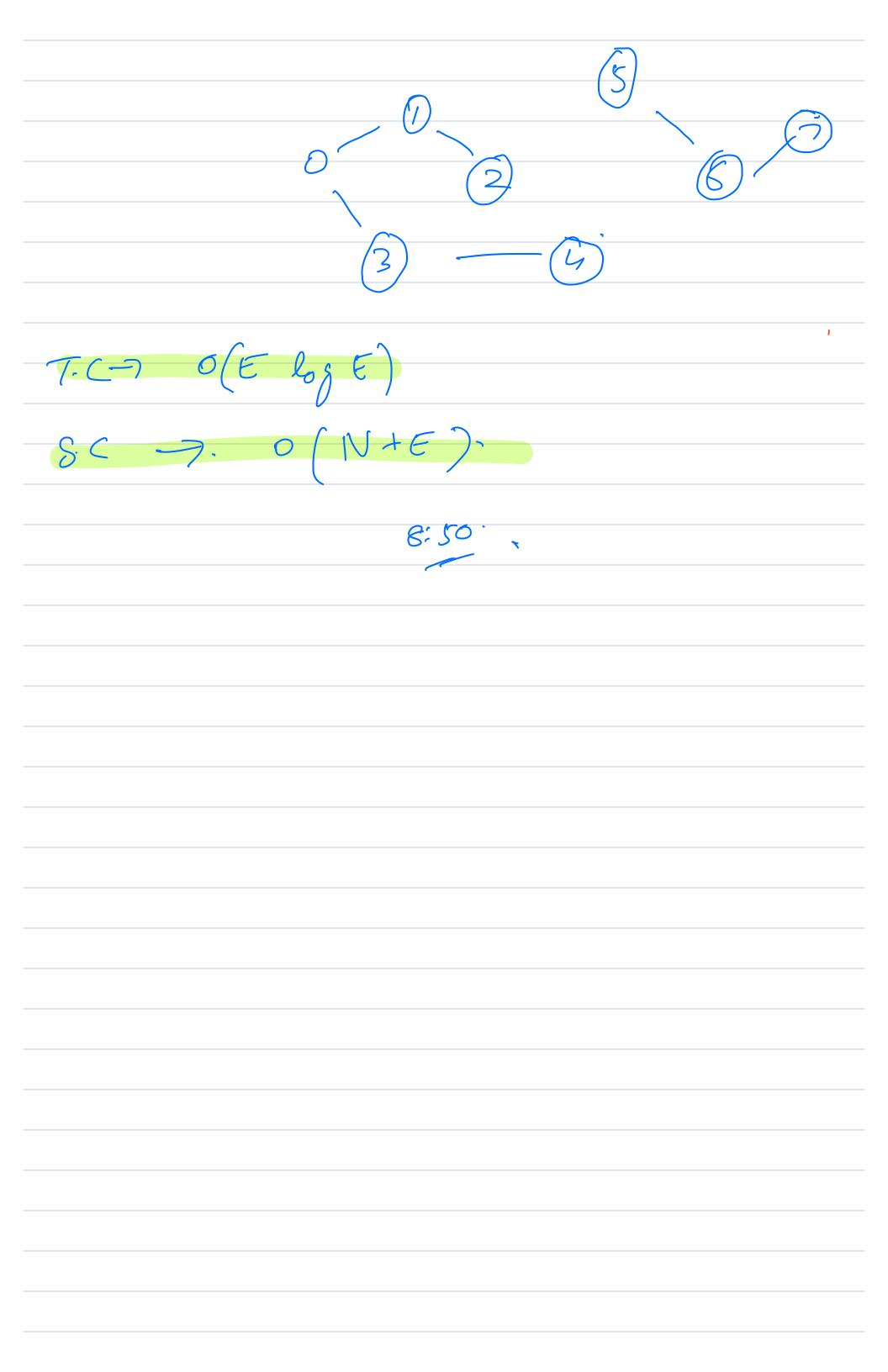
+ 3' +5 + 7.

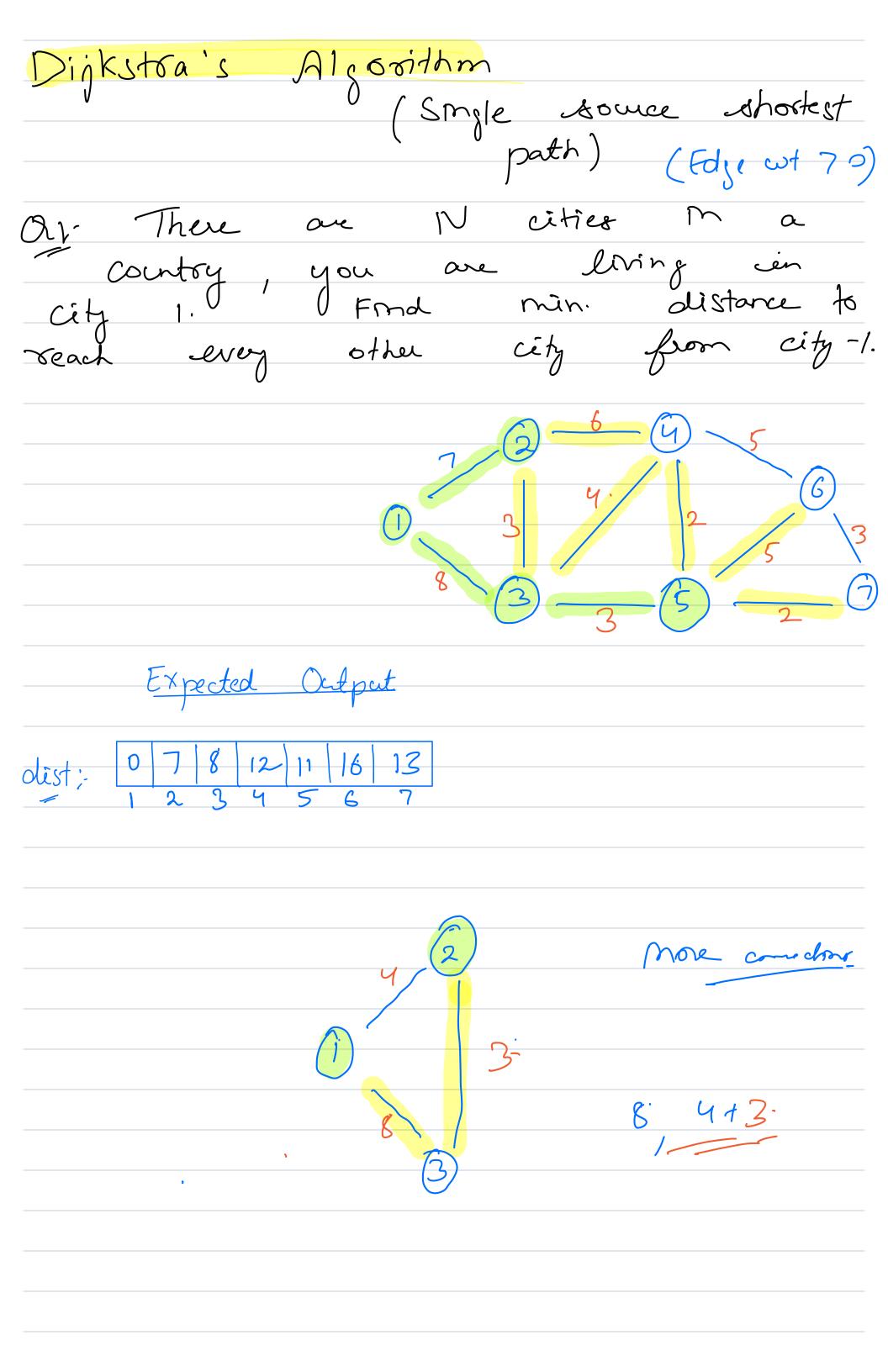


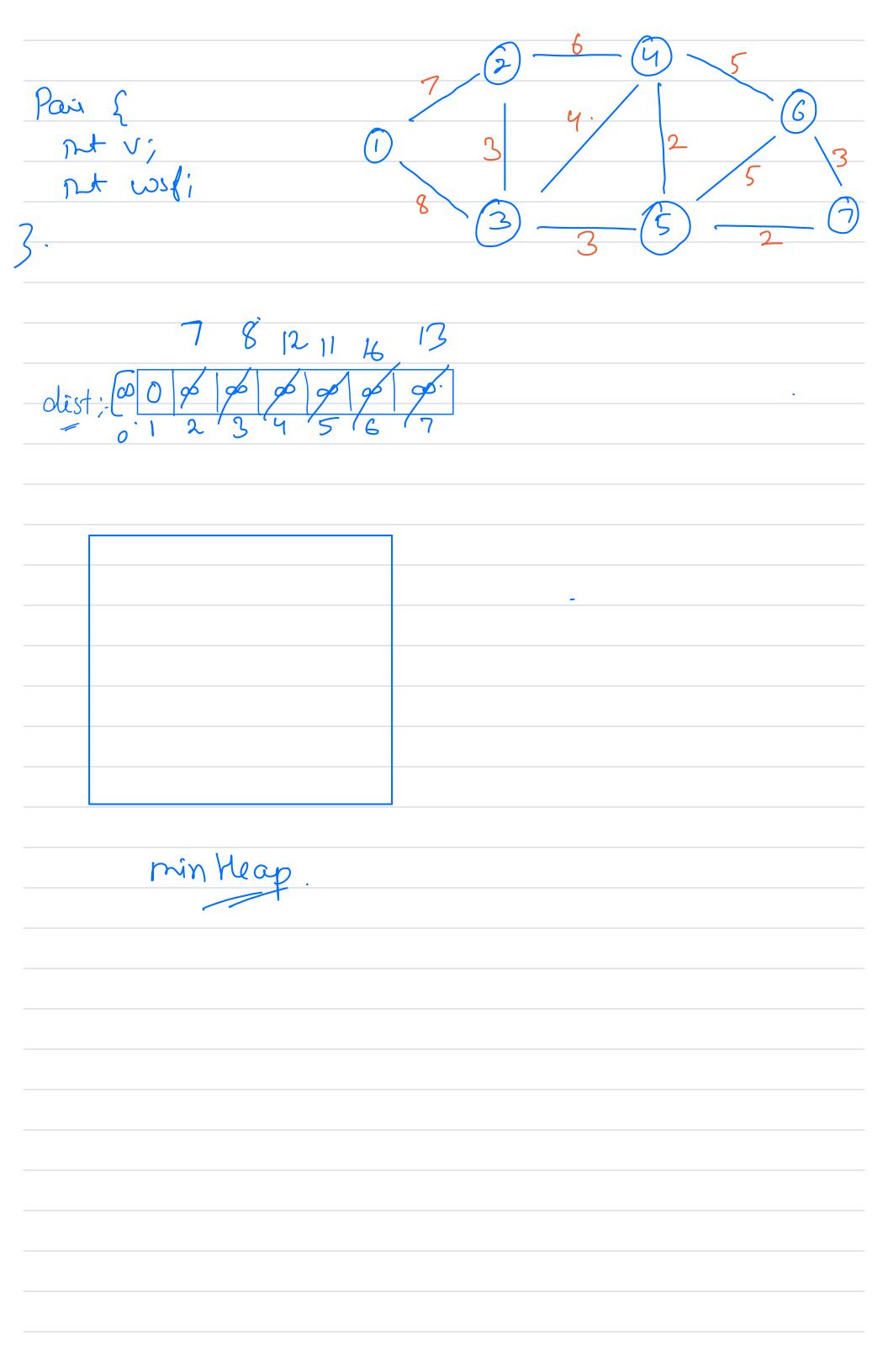
Poimis Algorithm gellow -> In cont root node node as t Keep on addry the visited. 0+7+3 +3+2. Edge { rtwf

# visited (N); Hi visited (i) - false; nonteop < Edge > heap; vrsited (o) = tone; for (Edge e: graph (o)) { hep. moent (e); while (heep. 813e () 70) { Edje ve = heap. vemour min J (visited (re.v) == tone) {

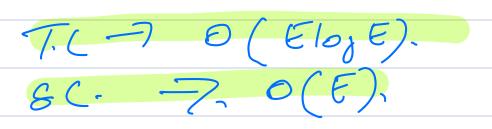
continue;} visited (re.v) = tone; or + = re.cut; for (Edge e: grouph (re.v)) S(Visited (e.v) == falle){







# Code dist (N+1); If dist(i) = INT\_MAX, min Neop C Pair 7 hop; Jop. moet (ner Pair (soc, 0)); Wile (Leop. SBe() 70) { Pair 8p = heap. Jemore Mm (). 5/ (dist [op.v)!= INT-MAX) 2 contrue; 3. dist(op.v) = op. wsf; la (ut ups: Soaby (ob.n)) { olist(nbo) == INT -MAX){ hegp. nseit ( nu Pair



Can	it work	Job	-ve	edje	weight	2
	7 (2)	-4.	[0]	713		
#	Djiksdoa He	Sorect	not (	ong to	gre	