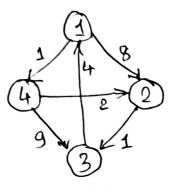


Floyd Warshall Als. use floyd warshall als to find the shortest fath between every part of vestices in the tol). pair scaph. ① ----3=7



	1	2	3	4_
Do:1	0	8	7	1
2	∞	0	1	X
3	4	X	0	\propto
4	X	2	9	10

_	1	2	3	4	
D3; 1	0	8	9	1	
2	5	0	1	6	
3	4	12	0	5	
4	7	2	3	0	

	1	2	3	4	
21:4	0	8	2	1)
2	a	0	1	~	
3	4	12	0	5	
41	a	2	9	0	
	1				
	X -	- 11	1	$-\infty$	

D2	$\alpha - 2 - \alpha$	3-1-2=12
	a [1,2]-2	3-1-4=5
	a 1011-1	

$$4-2-3=3$$
 $1-2-3=9$

shortest length (or Gor 3-4-5