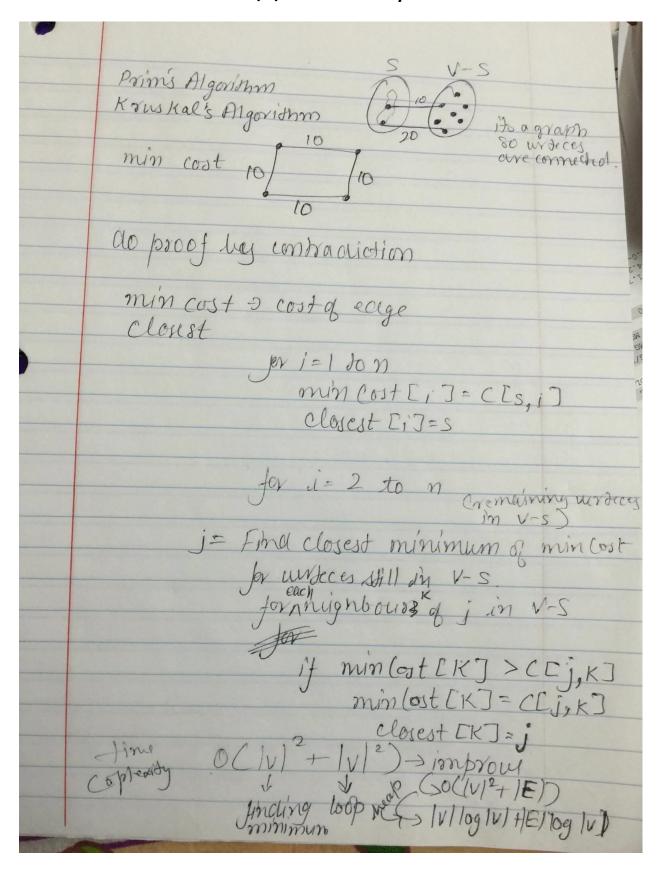


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•	classically sespenson
- 1	finding characters are easier and is quick.
7)	disaduantege tares man space.
a51)	Directed Cryaph $V = \{0,1,2,3,4,5\}$ $E = \{[0,1],[1,2],[2,1],[2,0]$
→	Does Not have any doups Cyclis > 0 > 1 -> 2 > 0 1 -> 2 > 1 4 -> 5 -> 4
eta res	$deg^{-}(V_2)=2$ $deg^{+}(V_2)=2$ $chalifold$
A SO	010010 0[] > [] 001000 1 [] > [2] 100000 2 [] > [2]
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Class work Dijkstras SSSP Algorianm	0
Olisdance [w] = shortest path know between source (s) and w	n
pred [w] = In turten immediately lifere w on the path from s to w	
for un tices we V distance [w] = ([s, w]	(15)
end for	
a = get Min (q)	not
Jor each neighbour v of u if distance Eu I + C Eu, v I < Custance Ev I = distance Sustance Eu I predev I = ii upotateq - primit custance Ev I	Colis domice
time Complexity = OCIEIlog (v1+ lv)	mes.
Analysis. OC/F/+ /V/log/v)) ())

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	\$50 -> \$100 10 years.
3830	
C (36) 66	#\$ APSP = call pairs shortest path (Single Source shortest Path can be applied) for $v \in V$
Di Sino	for VEV
	run Pijksdra's Algorishm with source v
	Dynamic Programming $\int_{-\infty}^{\infty} f(0) = 0$ $\int_{-\infty}^{\infty} f(n) = \int_{-\infty}^{\infty} f(n-1) + \int_{-\infty}^{\infty} f(n-2)$
	f(0) = f(n-1) + f(n-2)
	f E17=1-0:0
	for i=2 to 100
	f [i] = f[i-1]+[i-2]
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