

904, 046, 005, 074, 062, 001 + जी जम्बर सर्वम

Sout > last digit >	001 062 904 074 005 046	Sout (10Pla 001 904 -005 -046 -062 -074	001 005 046 062 074 904	थड़ा होगा उसी के अशबर सब की कर लेगे finally Sout Value
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# 3 Bucket Sout => non companision beard algorithm.

Bucket - Sout (A)

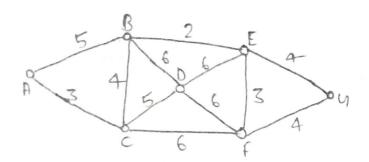
1) le B(O... n-1) be a new array

- 2) n = A. Jength
- 3) for i = 0 to n-1
- 4) make BIIJ an empty dist.
- 5) for i= 1 to n
- 6) Insert A [i] into dist B [[nA Li]]
- \*) for i= 0 +0-1.
- 8) Soul Beij with insention sout.
- 9) concodenate the lists dogether B [0]. B[1]B[n:

0.1) 0.79, 0.13, 0.64, 0.39, 0.20, 0.89, 0.53, 0.42, 0.06,0.91

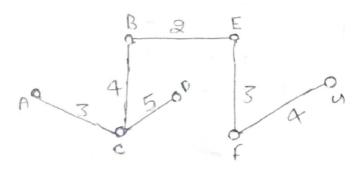
0 \[ \( \) \	क्विशानक के बाद जी Non होगा उसी के हिसाब से लिखेंगें।
5 .53 6 .64 7 .79, 8 .89 9 .94	0.06 0.13 0.20 0.39 0.42 0.53 0.64 0.79 0.89 0.94  This Value sort

### Minimum Spanning tree



Salve

 $0 \Rightarrow edge$  (n-1) 7-r=6



Total cost of minimum tree = 21

O constraint min neap with 'è edgs

Take one by one edge
and odd in spanning
tree (cycle should
be not created)

Best race (n-1) ed

wort case (2 edgs

अ Spanning tree

दानी साम्य (youling

नहीं हैंनी पाहिए)

अस्विम पहले हम

minimum value

से उन्नामिक

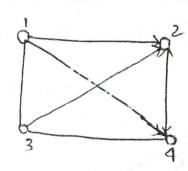
## Fractional Knopsack Problem

Object	Obi	Cb2	Obs	knapsaek
Profil	25	24	15	capacity
weight	18	15	amen C	(m) = (2)
alve	1.3	1.6	1.5	2

Phy		•	5 +	ला लबसे	: fo	rj=1.	tom h
Both		062	15= 24	ला लबसे हुई। ०५३ हुई। ३२ की स्वि	2) + 6 2) + 6	al culate	Plw
			5×19	3, 7.5		decreali	rg orden Ratio
		24	1+ 7.5	31.5	->	for i=1 +	on
				Ams	i	m>0 4	nd wism
						m= m- P= ealse	wi, P+Pi, book
*	*	* "					(m>0)
			•			P=	P+P; (m)

## Travelling Salesman Problem





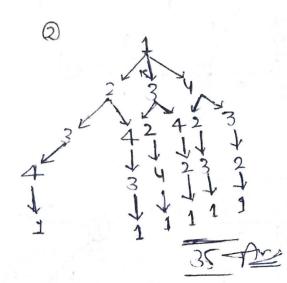
Salve \* हम minimum Value से

1 10 Greendy method

1 20

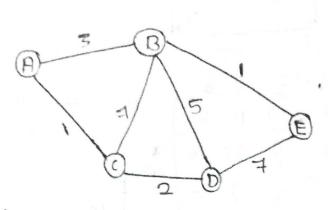
1 15

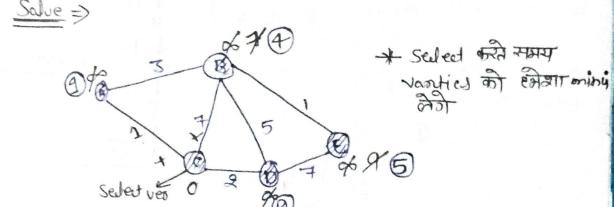
1 55



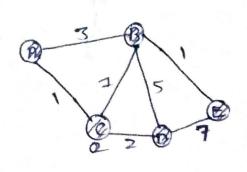
#### Dijkstras Algorithm

9) find the Soodest path in the given weight graph by Dijkstoa algorithm.





A	B	D	E
1	7	2	00
	4	2	00
	4	÷ .	9
			5
	A (1)x		



$$CA - CA \rightarrow C - A$$

$$CB - CAB \rightarrow C - A - B$$

$$CD - CD \rightarrow C - D$$

$$CE - CABE \rightarrow C - A - B - E$$