Similarity between S, and S2 =
$$\frac{1}{8} \left(-\frac{3}{2} + \frac{4}{2} + 2 \right)$$

$$= 0.687$$

Similarly the distances between each pair of samples can be calculated.

edceleted -					
	51	32	S3	Sa	
81		0.68	0.83	0.858	
S2	0.68		0-562	0.587	
53	0.83	0.562		1.0	
SA	0.885	0.587	1.0		
					4

Strong Crs M/ low van in X magnetic field |

No

Tunnel

Tunne

Neak GSM | hig Var in X-manelic field | Low voor in Y-magnetic field.

2a)
$$d(Pe) \leq Td$$
 $d(Pa) > Td$
 $e_n(Pa) = e_n(Pe)$
 $d(Pa) \leq Td$

- b) The most cost efficient path is $1 \rightarrow 2 \rightarrow 5 \rightarrow 6 \rightarrow 8$ (cost = 13) and the time delay associated with this path is to 12 which is less than the deadline and hence is a feasible solution.
- 3. The trip starts from P₁

 from P₁ it with go to P₂, P₃, P₄ and P₉

 Pa weights associated with P₂ = \frac{1}{7}, P₃ = \frac{1}{9}, P₉ = \frac{1}{4}

 P₉ has the highest weight associated. So it will go to P₉ next. Essentially it will go to the closest place every time. So the path is

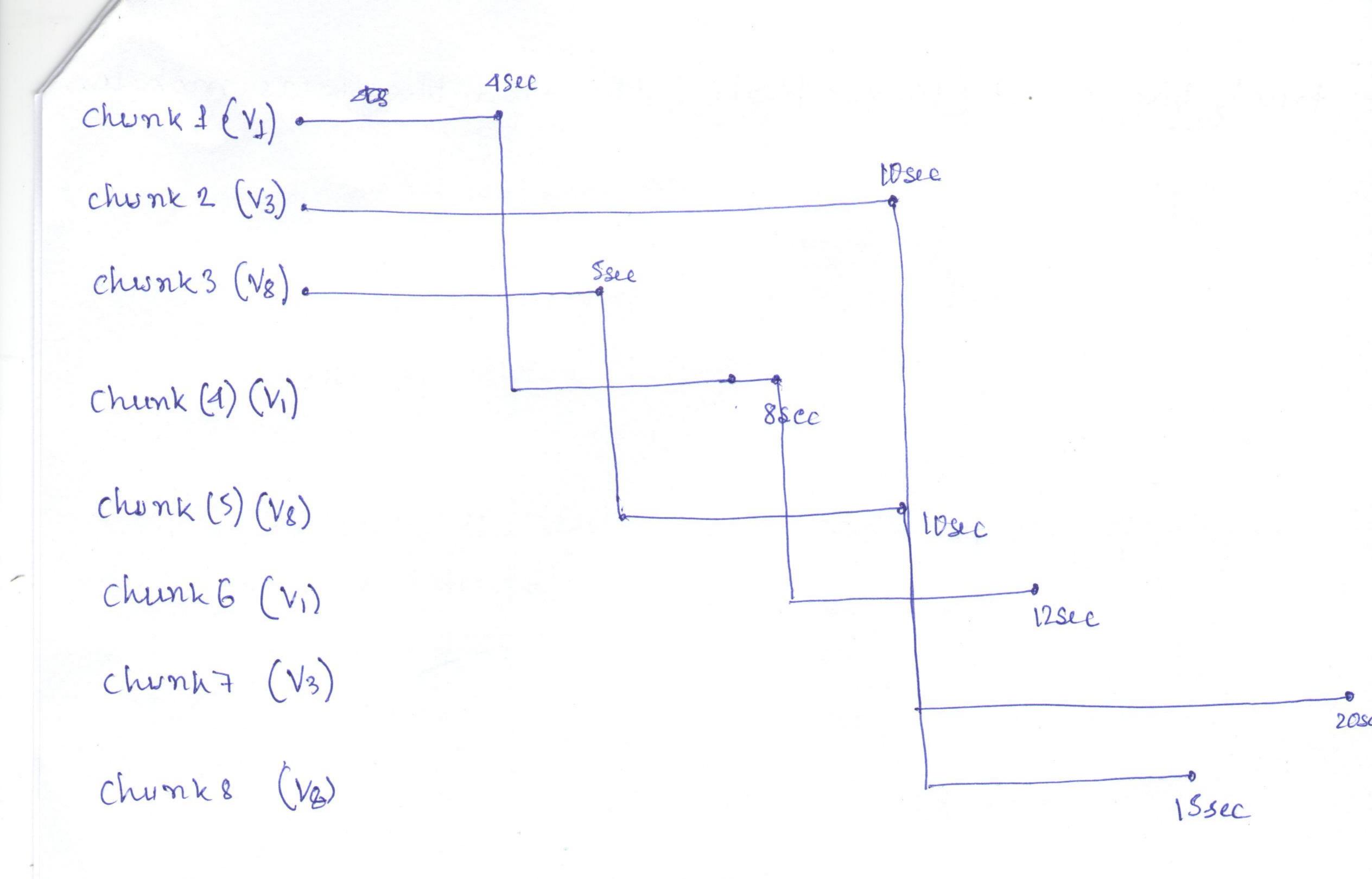
 P₁ \frac{4}{7} \mathread{P₉} \frac{4}{7} \mathread{P₄} \frac{5}{7} \mathread{P₅} \frac{5}{7} \mathread{P₅} \frac{5}{7} \mathread{P₅} \frac{7}{7} \mathread{P₇} \frac{8}{7} \mathread{P₇} \frac{9}{7} \mathread{P₈}
- Total cost of the path = 44

 4. U initiates the process at t=0

 It will hear the I-am-alive messages from
 Y1, V2, V3, V7 and V8

Perkyte Cost threshold = $\frac{400}{800}$ = 0.5 units/kB

So VI, V3 and V8 will be selected for collaboration.
There are 8 Chunks each of Size 100 kB that
needs to be downloaded.



The time taken to download the whole file = $20800 \, \text{Sec}$ Total cost = $(300 \times 0.4) + (200 \times 0.3) + (300 \times 0.4)$ = $120 + 60 + 120 = 300 \, \text{units}$.

5. 19 A malicious channel can specify any origin for a page and associate an arbitrary script with a button. When the button is clicked the script is injected into the page and gains un restricted access to the content from the page's origin. This is cross-site scripting vulnerability I to An Ak attacker can register a channel associated with a photo (mey be of a license plate). When millions of users scan their background and the photo is prominent the channel is launched atomatically. The information can then be transferred to the channels grove with a can

trach the object (license plate) through the usurs mobile.