Nion: Epwayer a) Mia ouváprion 9:5-22 ovopuzran ouváprion Surapunos av pa onoissinour suo paraoraisais, si mai se nou Scapépour orun squarymi evos naixer i or Scapepis PCSI) - PCSZ) Mui cost (CSI) - cost (CSZ) EXOUV TO ISIO MONTO, Ano ro Oringun ro Assenthal Zipagu ozi 4 originary $Q(s) = \sum_{e \in E} \sum_{j=1}^{he(s)} fe(j)$ Estat originary Surapunoi pa habr naixvisi superprist y 4 onoia Mabricai hui appisa) suraprior Strapinos. De (Ω ()) = Σ Σ fe(;) - Σ Σ fe(;)

Aπόδειξη -> Φ(S1) - Φ(S2) = εξ ;=1 eξξ ;=1 = \(\int \left(\frac{\text{he(Si)}}{\text{5}} \right) = \frac{\text{he(Si)}}{\text{5}} \right) \right) $\frac{\text{eff}}{2} = \frac{j=1}{j=1}$ $\frac{\text{he(s_1)}}{\text{he(s_1)}} = \frac{\text{he(s_2)}}{\text{eff}(j)} + \frac{\sum_{j=1}^{ne(s_2)} fe(j)}{\text{eff}(s_1)} = \frac{\text{he(s_2)}}{j=1}$ $\frac{\sum_{j=1}^{ne(s_2)} fe(j)}{j=1} + \frac{\sum_{j=1}^{ne(s_2)} fe(j)}{\text{eff}(s_1)} = \frac{\text{he(s_2)}}{j=1}$ + \(\frac{\interpolar \text{fe(j)}}{2\text{fe(j)}} - \frac{\text{re(sz)}}{2\text{fe(j)}} \) + \(\frac{\interpolar \text{fe(j)}}{2\text{fe(j)}} - \frac{\interpolar \text{fe(j)}}{2\text{fe(j)}} \) + \(\frac{\interpolar \text{fe(j)}}{2\text{fe(j)}} - \frac{\interpolar \text{fe(j)}}{2\text{fe(j)}} \) = ESPS: (fe (ne(si) - fe (ne(si)) + E (fe (ne(si)))
efsis: - Z (fe(ne(sz)) +0 = Z fe(ne(sz)) - Z fe(ne(sz))
efficiency) = costicsi) - costii(sz)(1)

Anorry Engired Exoupt!

$$cost_i(x) = \sum_{j \in G} |x_i - x_j| - \sum_{j \in G} |x_i - x_j| (2)$$

$$\frac{(1) \frac{(2)}{2}}{2} \times \frac{(2)}{2} \times \frac{(2)}$$

$$= \sum_{\mathbf{q} \in \{i,j\} \in \mathcal{C}} |x_i - x_j| - \sum_{\mathbf{q} \in \{i,j\} \in \mathcal{C}} |x_i - x_j|$$

con maradin game or or
$$\varphi(x) = \sum_{(i,j) \in F} |x_i - x_j| - \sum_{(i,j) \in C} |x_i - x_j|$$

and Assenthal:
$$Q(s) = \sum_{e \in E} \sum_{j=1}^{he(s)} fe(j) = \sum_{e \in E} \sum_{j=1}^{he(s)} (de_j + be_e)$$

$$= \sum_{e \notin E} (ae \sum_{j=1}^{he(s)} + \sum_{j=1}^{he(s)} be_e) = \sum_{e \notin E} (ae \frac{he(s)^2 + he(s)}{2} + be_e)(s)$$

$$= \sum_{e \notin E} (ae \frac{he(s)^2 + he(s)}{2} + be_e) + be_e(s) + be_e(s) = \sum_{e \notin E} (ae \frac{he(s)^2 + be_e(s)}{2} + be_e(s))$$

ACOR

Anoberty (Pos £2)

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Da Justin oti S ((Sea) £2 S (Copt) M Pos £2

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