```
1. (1) \mathbb{E}_{s \sim p(S), \Omega \wedge \pi_{\phi}(s, \sigma)} \left( \frac{\pi_{\phi}(s, \sigma)}{\hat{t}_{\phi}(s, \sigma)} R(s, \sigma) \right) = \mathbb{E}_{s \sim p(\Theta), \Omega \wedge \pi_{\phi}(s, \sigma)} \left( \frac{\pi_{\phi}(s, \sigma)}{\pi_{\phi}(s, \sigma)} R(s, \sigma) \right)
                                         = \sum_{s,a} p(s) \pi_{s}(s,a) \left( \frac{\pi_{s}(s,a)}{\pi_{s}(s,a)} R(s,a) \right) = \sum_{s,a} p(s) \pi_{s}(s,a) R(s,a) = \mathbb{E}_{s \sim p(s), 0 \sim \pi_{s}(s,a)} R(s,a)
                        (2) \quad \frac{E_{\varsigma \land \rho \otimes 0,\; 0 \land \mathcal{R}_{\alpha}(\varsigma, \omega)}\left(\frac{\mathcal{R}_{\alpha}(\varsigma, \omega)}{\mathcal{R}_{\alpha}(\varsigma, \omega)} \, \frac{\mathcal{R}_{\alpha}(\varsigma, \omega)}{\mathcal{R}_{\alpha}(\varsigma, \omega)} \, \mathcal{R}(\varsigma, \omega)\right)}{E_{\varsigma \land \rho \otimes 0,\; 0 \land \mathcal{R}_{\alpha}(\varsigma, \omega)} \frac{\mathcal{R}_{\alpha}(\varsigma, \omega)}{\mathcal{R}_{\alpha}(\varsigma, \omega)} \, \mathcal{R}(\varsigma, \omega)} = \frac{E_{\varsigma \land \rho \otimes 0,\; 0 \land \mathcal{R}_{\alpha}(\varsigma, \omega)}\left(\frac{\mathcal{R}_{\alpha}(\varsigma, \omega)}{\mathcal{R}_{\alpha}(\varsigma, \omega)} \, \frac{\mathcal{R}_{\alpha}(\varsigma, \omega)}{\mathcal{R}_{\alpha}(\varsigma, \omega)} \, \mathcal{R}(\varsigma, \omega)\right)}{E_{\varsigma \land \rho \otimes 0,\; 0 \land \mathcal{R}_{\alpha}(\varsigma, \omega)} \, \mathcal{R}(\varsigma, \omega)}
                                                             =\frac{\sum\limits_{\substack{S \in \Delta \\ S \in \Delta}} p(S) \, \mathcal{R}_{s}(S, o) \left(\frac{\mathcal{R}_{s}(S, o)}{\mathcal{R}_{s}(S, o)} \, \mathcal{R}(S, o)\right)}{\sum\limits_{\substack{S \in \Delta \\ S \in \Delta}} p(S) \, \mathcal{R}_{s}(S, o) \, \frac{\mathcal{R}_{s}(S, o)}{\mathcal{R}_{s}(S, o)}} = \frac{\sum\limits_{\substack{S \in \Delta \\ S \in \Delta}} p(S) \, \mathcal{R}_{s}(S, o) \, \mathcal{R}(S, o)}{\sum\limits_{\substack{S \in \Delta \\ S \in \Delta}} p(S) \, \mathcal{R}_{s}(S, o)}
                                                          = \sum_{s,\alpha} p(s) \pi_t(s,\alpha) \, R(s,\alpha) = \mathbb{E}_{s \sim p(s),\alpha \sim \pi_t(s,\alpha)} \, R(s,\alpha)
                      (3) 样本有限时 \frac{\mathbb{E}_{S \sim P(S), \Omega \sim \mathcal{R}_{h}(S, 0)}\left(\frac{\mathcal{R}(S, 0)}{\mathcal{R}_{h}(S, 0)}\right)}{\mathbb{E}_{S \sim P(S), \Omega \sim \mathcal{R}_{h}(S, 0)}\left(\frac{\mathcal{R}(S, 0)}{\mathcal{R}_{h}(S, 0)}\right)} = \frac{\sum\limits_{i=1}^{n} \frac{\mathcal{R}_{i}(S_{i}, 0_{i})}{\sum\limits_{i=1}^{n} \frac{\mathcal{R}_{i}(S_{i}, 0_{i})}{\sum\limits_{i=1}^{n} \mathcal{R}_{i}(S_{i}, 0_{i})}}{\sum\limits_{i=1}^{n} \frac{\mathcal{R}_{i}(S_{i}, 0_{i})}{\sum\limits_{i=1}^{n} \mathcal{R}_{i}(S_{i}, 0_{i})}} P_{i}
                                            \frac{\pi_{0}(s, a)}{\#_{S} \cap P(s), 0 \wedge \pi_{0}(s, a)} \frac{E_{S \cap P(s), 0 \wedge \pi_{0}(s, a)} \frac{\pi_{0}(s, a)}{\frac{\pi_{0}(s, a)}{\pi_{0}(s, a)}} = \frac{\pi_{0}(s, a)}{\frac{\pi_{0}(s, a)}{\pi_{0}(s, a)}} = \frac{\pi_{0}(s, a)}{\frac{\pi_{0}(s, a)}{\pi_{0}(s, a)}} = R(s, a) = \mathbb{E}_{S \cap P(s), 0 \wedge \pi_{0}(s, a)} R(s, a)
                                               緊估計量力 E5.peo.a.n.T.(5.0) P(5.0), 星然 仅当元(5.0)三元(5.0)时=者相志,否则会产生偏差
                        (A) (i) \mathbb{E}_{s \sim p(s), 0 \sim T_{n}(s, 0)} \left( \mathbb{E}_{o \sim T_{n}(s, 0)} \hat{R}(s, a) + \frac{T_{n}(s, a)}{f_{n}(s, a)} (A(s, a) - \hat{R}(s, a)) \right)
                                                                             =\mathbb{E}_{\text{Sup}(S_1,0)\times\mathbb{E}_{S_1,0}(S_1,0)}\,\hat{R}_{(S_1,0)}\,\hat{R}_{(S_1,0)}+\mathbb{E}_{\text{Sup}(S_1,0)\times\mathbb{E}_{S_1}(S_1,0)}\frac{\pi_{\iota}(s_1,0)}{\pi_{\iota}(s_1,0)}\,(\,R(s,0)\,\cdot\,\hat{R}(s,0))
                                                                             = Espes, Ontils, o) R(S, a) - Espes, Ontils, o) (R(S, a) - R(S, a))
                                                                                = Espesion TI(SO) R(S,Q)
                                               (ii) \quad \mathbb{E}_{c \sim p(s), \alpha \sim \pi_{\alpha}(S, \omega)} \left( \mathbb{E}_{\alpha \sim \pi_{\alpha}(S, \omega)} \hat{R}(s, \omega) + \frac{\pi_{\alpha}(s, \omega)}{\hat{\pi}_{\alpha}(s, \omega)} \left( R(s, \omega) - \hat{R}(s, \omega) \right) \right)
                                                                             =\mathbb{E}_{s \sim pro, \, o \sim \pi_o(s, o)} \,\, \mathbb{E}_{o \sim \pi_o(s, o)} \,\, R(s, o) + o \,\, = \mathbb{E}_{s \sim pro, \, o \sim \pi_o(s, o)} \,\, R(s, o)
                        (II) 的 在使用重要性条件估计量 由于IS不协顿对 RIS,0) 建模、即便 RIS,0) 复杂难从预测。
IS (B.可根据观测到数据估计。
                                                             (1) 在使用回归估计量。此时避免了对下。(5.0)的保赖,减少行为策略建模影响。

    futo=argmin || ホーリ||= U argmin || メーα U || = (x<sup>T</sup>u) μ, 化 U= 点点 x<sup>(t)</sup> x<sup>(t) T</sup> お †本 方菱純粋, yeV

                                         \text{cal} \ \underset{\|\mathbf{u}\| = 1}{\text{organis}} \ \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{i=1}{\sum}}} \| \chi^{(i)} - \int_{\mathbb{R}^{n}} (\chi^{(i)}) \|_{k}^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\text{organis}} \ \left( \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} - (\chi^{(i)} \mathbf{u}) \mathbf{u} \|_{2}^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = \underset{\|\mathbf{u}\| = 1}{\overset{m}{\underset{\|\mathbf{u}\|} = 1}} \| \chi^{(i)} \|^{2} \\ = 
                                                    = \underset{\|\mathbf{h}\| = 1}{\operatorname{cog-min}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} (\boldsymbol{\chi}^{(i)}\boldsymbol{\chi}^{(i)})^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} (\boldsymbol{\chi}^{(i)}\boldsymbol{\chi}^{(i)})^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1}{\operatorname{arg-max}} \left( \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} - \underbrace{\underset{i = 1}{\overset{n}{\sim}}}_{\text{init}} \|\boldsymbol{\chi}^{(i)}\|^{2} \right) \\ = \underset{\|\mathbf{h}\| = 1
                                                    = m·angmax u<sup>T</sup>Su = m·angmax u<sup>T</sup>Su, 5<sup>ml</sup> 为民<sup>m</sup>中单位社在
null=1
                                               由 S= ST, 作正交对角化 PTSP= diag (λ1,····, λn)且 λ1≥···>λn,对 1111=1.1 ||Pull=1.11 |
                                         ⇒ argmax μTSu = argmax μTpTdlog(λ,····λn) Pu = argmax √Tdlog(λ,····λn) v = PTe, 対反特征値入的特征方向 μeSm1 PueSm1
                                                    和为第一主成分
        3. (1) | B(V1)(0) - B(V2)(5) = | R(0)+1 max \sum_{\text{max}} \sum_{\text{psq}} \( P_{\text{sq}} \left( s' \right) V_1 (s') - \text{R(s)-y max} \sum_{\text{max}} \sum_{\text{max}} \ P_{\text{sq}} (s') V_2 (s') \]
                                                                                                                                                                                                                                           \leq \gamma \max \left| \sum_{s \in S} P_{sa}(s') \left( V_{1}(s') - V_{s}(s') \right) \right| \leq \gamma \max_{s \in A} \sum_{s'} P_{sa}(s') \left| V_{1}(s') - V_{s}(s') \right|
                                                                                                                                                                                                                                   \leq r \max_{\alpha \in A} \sum_{s'} ||S_{\alpha}(s)|| ||V_i - V_{\Delta}||_{\infty} = r' ||V_i - V_{\Delta}||_{\infty}, \quad \forall s \in S
                                                             = ||B(V1)-B(V2)||00 = max |B(V1)(5)-B(V2)(5) | € Y ||V1-V2||00
                              (2) B夏丽若教诱导慢量下压缩映射, 若BUV)有不唯一不动点. Xi+ Ya,则
                                                                     例||X1-X||=||B(X1)-B(X1)||≤|||X1-X1|| → ||X1-X1||= 0 → X1-X 矛盾, 城不动点至9年-个.
  4 \text{ (i) Lagrange distribution} \quad \lambda = \frac{1}{2} w^T w - \frac{\Lambda}{2\pi 1} w^T (w^T x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi 1} \alpha_1 x^{(t)} = 0 \quad \Rightarrow \quad W = \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi 1} \alpha_1 x^{(t)} = 0 \quad \Rightarrow \quad W = \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} \alpha_1 x^{(t)} = 0 \quad \Rightarrow \quad W = \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} \alpha_1 x^{(t)} = 0 \quad \Rightarrow \quad W = \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} \alpha_1 x^{(t)} = 0 \quad \Rightarrow \quad W = \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} \alpha_1 x^{(t)} = 0 \quad \Rightarrow \quad W = \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} \alpha_1 x^{(t)} = 0 \quad \Rightarrow \quad W = \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} \alpha_1 x^{(t)} = 0 \quad \Rightarrow \quad W = \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t)} - 1) \quad \forall w \downarrow = w - \frac{\Lambda}{2\pi} w^T (x^{(t
                                                             \mathcal{M} \text{ eff } \mathcal{A} (w, \alpha) = \frac{1}{2} \left( \frac{n}{\ln u} \kappa_i \chi^{(i)} \right)^T \left( \frac{n}{\ln u} \kappa_i \chi^{(i)} \right) - \frac{n}{\ln u} \kappa_i \left( \left( \frac{n}{\ln u} \kappa_i \chi^{(i)} \right)^T - 1 \right) = \frac{n}{\ln u} \kappa_i - \frac{1}{2} \frac{n}{\ln 1} \frac{n}{\ln u} \kappa_i \chi^{(i)} \chi^{(
                                                          \Rightarrow \mathsf{DP} \not\Rightarrow \mathsf{max} \ \ \overset{\sim}{\succeq} \mathsf{u}_1 - \tfrac{1}{2} \overset{\sim}{\succeq} \overset{\sim}{\succeq} \mathsf{u}_1 \mathsf{u}_1 \mathsf{v}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^\mathsf{u}^\mathsf{u}^{\mathsf{u}_1^{\mathsf{u}^\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^{\mathsf{u}_1^\mathsf{u}^\mathsf{u}^\mathsf{u}^\mathsf{u}^\mathsf{u}}^\mathsf{u}^\mathsf{
                           (3) 梅内积 x<sup>n/x</sup>x<sup>(1)</sup>替練为核色数 k(x<sup>n</sup>, x<sup>(1)</sup>), 由 Mercer/Hilbert-Schmidt, 3 pto e.d.(1) st. k(x<sup>n</sup>, x<sup>(1)</sup>=px<sup>(n)</sup>)*fx<sup>(1)</sup>
                                                                        班时问题帮伙力 max 1 Tx - ± α T φα) φα) τα st. α≥0, 其中φ(X)=(φ(X<sup>n</sup>),...,φ(X<sup>m</sup>))(液体转 k(X<sup>n</sup>), X<sup>(i)</sup>)
                                                                        而不依赖数据於,故可以核化
                           (3) 蓝绿似,uj进行优化, iZ k(x<sup>0</sup>, x<sup>(p</sup>)=Xij, 假在 10+c)=P
                                                       (\alpha_i,\alpha_j) = \underset{\alpha_i,\alpha_j}{\operatorname{argmax}} \left( \sum_{i=1}^n \alpha_i + \frac{1}{2} \sum_{i=1}^n \sum_{j=1}^n \alpha_i \alpha_j \pi_i^{(i)} \pi_i^{(j)} \right) = \underset{\alpha_i,\alpha_i}{\operatorname{argmax}} \left( \alpha_i + \alpha_j - \frac{1}{2} \alpha_i^2 \mid k_{ii} - \alpha_j^2 \mid k_{ij} - \alpha_i \alpha_j \mid k_{ij} \right)
                                                    \Rightarrow \alpha_{i} = \underset{\alpha_{i}}{\operatorname{argmax}} \left( p - \frac{1}{2} k_{ij} \alpha_{i}^{2} - \frac{1}{2} k_{ij} (p - \alpha_{i})^{2} - k_{ij} \alpha_{i} (p - \alpha_{i}) \right) = \underset{\alpha_{i}}{\operatorname{argmax}} \left( -\frac{1}{2} k_{ii} + k_{ij} - \frac{1}{2} k_{ij} ) \alpha_{i}^{2} + p (k_{ij} - k_{ij}) \alpha_{i} + p (k_{ij} - k_{ij}
                                                                                                            =-\frac{\alpha_i}{2(-\frac{1}{2}k_{11}-k_{1j})} = \frac{\rho(k_{1j}-k_{1j})}{k_{11}-2k_{1j}^2+k_{1j}} = \frac{\rho(k_{1j}-k_{1j})}{k_{11}-2k_{1j}^2+k_{1j}} \qquad \alpha_{ij} = \rho \cdot \sigma_i = \frac{\rho(k_{1i}-k_{1j})}{k_{1i}-2k_{1j}+k_{1j}} \quad \text{R.3.3.}
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可以重过监取不同变量对逐步逼近全局最优解