```
Dat E = (X1: X2... Xn) Telkh Klw dó 5 Cx Xk = CT &
\operatorname{Var}\left(\underline{c}^{\intercal}\underline{x}\right) = \operatorname{E}\left[\left(\underline{c}^{\intercal}\underline{x} - \operatorname{E}\left(\underline{c}^{\intercal}\underline{x}\right)\right)^{2}\right] = \operatorname{E}\left[\left(\underline{c}^{\intercal}\left(\underline{x} - \operatorname{E}\underline{x}\right)\right)^{2}\right]
              = E(\underline{c}^{\intercal}(\underline{x} - \underline{E}\underline{x}).(\underline{x} - \underline{E}\underline{x})^{\intercal}\underline{c}]
                      \overline{C_L} = ((\overline{L} - E\overline{L}) \cdot (\overline{L} - E\overline{L})_{\perp}) \cdot \overline{C}
                       C^{T} \supset C
            khac: \Sigma := E((\underline{x} - E\underline{x})(\underline{\tilde{x}} - E\underline{x})^{T}]
                                  = diag { Var (x1); Var (x2); ...; Var (X1)}-10
                                 = 02 Inxn (do 1 x+1 la wd)
  Hon nua CTE la voi lg o chich nen
             E(\underline{c}^{T} \underline{x}] = \underline{y} \oplus \underline{c}^{T} \cdot E(\underline{x}) = \underline{y}
                                  c'. 1 = 1 (1 là vecto cot gim toan
  Ca time c té circ trên loa ham lagrange L(c; x) xot bis
           \mathcal{L}(c;\lambda) = Var(c^{7}x) + \lambda(c^{4}x^{6}-1)
                                    σ2 11 <u>C</u>1/2 + λ. (c<sup>7</sup>·41.
                     (c; x) = 202 c + x11 = 0 (Olared khôg)
                          = \frac{-\lambda}{20^2}
                                       1. Do dó -1 1 1 = 1 = 1 = 202
       Như vày, c = \frac{-\lambda}{n}, dl = \left(\frac{1}{n}, \dots, \frac{1}{n}\right)^T
 hay c7 x = 1 5 Xx la voi la To chich tot
```

Suy ra truic trép ti b, va d, Fruive het, ta tim hain , cu'e trève luca E (C Sn. 1) = 1 C S1,	_
She Sa; Sh E (She Sa; Sh) She She Sa; She She Sa; She She Sa; She	
$= Var \left(S_{n+1} \mid S_1 ; \dots S_n \right) + \left(\mathcal{J} \left(S_1 ; \dots S_n \right) - E \left(S_{n+1} \mid S_1 ; \dots S_n \right) \right)$ $= Var \left(S_{n+1} \mid S_1 ; \dots S_n \right)$ $= Nhil vay E \left(S_{n+1} \mid S_1 ; \dots S_n \right)$ $= arg min E \left(\left(S_{n+1} - \mathcal{J} \left(S_1 ; \dots ; S_n \right) \right)^2 \mid S_1 ; \dots \mid S_n \right)$ $= \left(E \left(S_1 ; \dots ; S_n \right) \cdot \left(E \left(S_1 ; \dots ; S_n \right) \right)$ $= \left(E \left(S_1 ; \dots ; S_n \right) \cdot \left(E \left(S_1 ; \dots ; S_n \right) \right) \cdot \left(E \left(S_1 ; \dots ; S_n \right) \right)$ $= \left(E \left(S_1 ; \dots ; S_n \right) \cdot \left(E \left(S_1 ; \dots ; S_n \right) \right)$ $= \left(E \left(S_1 ; \dots ; S_n \right) \cdot \left(E \left(S_1 ; \dots ; S_n \right) \right)$	Sa
Như vày E ($S_{n+1} \mid S_1$, S_n) E ($S_{n+1} - jS_2$; S_n) $= argmin E$ ($S_{n+1} - jS_2$; S_n) $= fS_2$; S_n) $= E$ ($S_{n+1} \mid S_1$, S_n) Chon $S_{n+1} = E$ S_1 , S_n (E ($S_{n+1} \mid S_1$, S_n)) $= E$ S_1 , S_n (E ($S_1 + + N_{n+1}$) S_1 , S_n)	
Chon $S_{n+1} = F_{S_1}$, $S_n \in E(S_{n+1} \mid S_1,, S_n)$ $F_{S_1} = F_{S_1} \cdot S_n \cdot S_n \cdot (E(X_1 + + X_{n+1}) \mid X_2,, X_n)$ $F_{S_1} = F_{S_1} \cdot S_n \cdot (E(X_1 + + X_{n+1}) \mid X_2,, X_n)$	
Chon $S_{n+1} = F_{S_1}$, $S_n \in E(S_{n+1} \mid S_1,, S_n)$ $F_{S_1} = F_{S_1} \cdot S_n \cdot S_n \cdot (E(X_1 + + X_{n+1}) \mid X_2,, X_n)$ $F_{S_1} = F_{S_1} \cdot S_n \cdot (E(X_1 + + X_{n+1}) \mid X_2,, X_n)$	0 -
Chon $S_{n+1} = F_{S_1}$, $S_n \in E(S_{n+1} \mid S_1,, S_n)$ $F_{S_1} = F_{S_1} \cdot S_n \cdot S_n \cdot (E(X_1 + + X_{n+1}) \mid X_2,, X_n)$ $F_{S_1} = F_{S_1} \cdot S_n \cdot (E(X_1 + + X_{n+1}) \mid X_2,, X_n)$	Sn_
Par 13	1
1/WY DAY	
Xet chuối Howar dùng chất (Xigtro là the R và the Z Taco! P (Xtk ≤ Xtk) = P (Xtk+li ≤ Stk)),_
> Xte và Xter là có cũng pp the R ttk > 0	2
g/si chúng is cũng pp vs bin X.	
$\frac{1}{1} \frac{\partial f}{\partial t} \frac{\partial f}{\partial x} = \frac{f(x)}{1} \frac{f(x)}{1} \frac{\partial f}{\partial x} \frac{\partial f}{\partial x} = \frac{f(x)}{1} \frac{\partial f}{\partial x} = f$	
lo do (Xt) là chuố TG dùng yếu.	25
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Ngày