Our situation in IPTW ATT Robust variance

$$A(3) = -E \begin{bmatrix} \frac{\partial \psi_{00}}{\partial \phi_{0}} & \frac{\partial \psi_{00}}{\partial \phi_{1}} & \frac{\partial \psi_{00}}{\partial \phi_{1}} & \frac{\partial \psi_{00}}{\partial \phi_{2}} & \frac{\partial \psi_{00}}{\partial \phi_{1}} & \frac{\partial \psi_{0$$

우리의 상황은
$$P(A=1|L_{\overline{L}}) = exp(do+d_1B+d_2C) / 1+exp(do+d_1B+d_2C)$$
 h(LTid) 라 define.

$$\frac{\partial \psi_{do}}{\partial da} = -\frac{h(LT;d) \times CT}{(1+h(LT;d))^2}$$

$$\int \frac{\partial \psi_{dl}}{\partial do} = - \frac{h(L_{7}; d) \times B_{7}}{(1 + h(L_{7}; d))^{2}}$$

$$\underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial do} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial d1} = -\frac{h(L\tau;d) \times B\tau^2}{(1+h(L\tau;d))^2} \end{array}\right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial d2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial d2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \end{array}\right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial d2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial d2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial d2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial d2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial d2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial d2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial d2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau \times C\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_{d1}}{\partial 2} = -\frac{h(L\tau;d) \times B\tau}{(1+h(L\tau;d))^2} \right)}_{} \underbrace{\left(\begin{array}{c} \frac{\partial \psi_$$

$$\Rightarrow O|\square, \ h(|\square|d) / (|+h(|\square|d))^2 = \frac{h(|\square|d)}{|+h(|\square|d)} \times \frac{1}{|+h(|\square|d)} = P(A_{T=1}||\square|) \times (|-P(A_{T=1}||\square|))$$

$$2HP_{2}^{2}, Q_{11} = \begin{bmatrix} -\frac{h(L_{7};\alpha)}{(1+h(L_{7};\alpha))^{2}} & (1,B_{7},C_{7})^{T} \end{bmatrix} \xrightarrow{CodIng} W = d_{1}^{2} \left(\frac{h(L_{1};\alpha)}{(1+h(L_{7};\alpha))^{2}}\right) = d_{1}^{2} q_{2} (p_{5})^{T}$$

$$-\frac{h(L_{7};\alpha)}{(1+h(L_{7};\alpha))^{2}} & (B_{7},B_{7}^{2},B_{7}^{2},B_{7}^{2})^{T} \end{bmatrix} \times = D_{2}^{2} q_{1}^{2} q_{2}^{2} q_{3}^{2} q_{4}^{2}$$

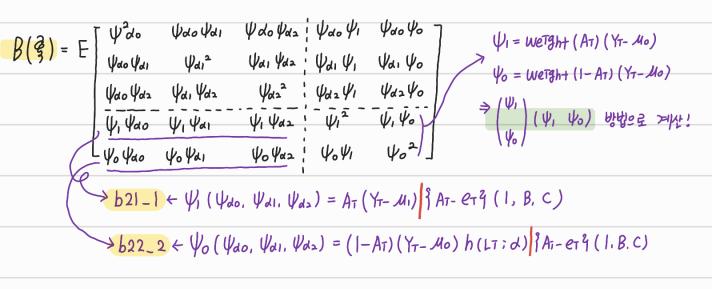
$$-\frac{h(L_{7};\alpha)}{(1+h(L_{7};\alpha))^{2}} & (C_{7},B_{7}^{2}C_{7},C_{7}^{2})^{T}$$

$$= \frac{h(L_{7};\alpha)}{(1+h(L_{7};\alpha))^{2}} (C_{7},B_{7}^{2}C_{7},C_{7}^{2})^{T}$$

> - Cross prod (Sqr+(W), X) / nrow (data)

$$\bigcirc \frac{\partial \psi_o}{\partial \phi_o} = (Y_T - \mathcal{M}_o) (I - A_T) h(L_{T}; \alpha)$$

3
$$\frac{\partial \psi_0}{\partial d^2} = (Y_T - u_0)(I - A_T)h(L_T; d) \times C_T$$



⇒ DI지막에 nrow(data)로 나누어줌.