y = torch.take(X1, X2)

Require: $|X_1| = (d_1, d_2 \cdots, d_i)$

$|X_2| = (d'_1, d'_2, \cdots, d'_j)$

Guarantee: $|y| = (d'_1, d'_2, \cdots, d'_j)$

$\sigma \vdash E_1 \Rightarrow e_1, C_1$

$\sigma \vdash E_2 \Rightarrow e_2, C_2$

$k_1 = \text{rank}(e_1)$

$k_2 = \text{rank}(e_2)$

$C' = \{(k_1 \geq 0) \wedge (k_2 \geq 0)\}$

$\sigma \vdash \text{take}(E_1, E_2) \Rightarrow e', C' \cup C_1 \cup C_2$

Description: Returns a new tensor composed of elements located at given input indices.