torch.squeeze

$$\frac{\sigma \vdash E \Rightarrow e, c \quad k = \text{rank}(e) \quad e' = e[1:n-1] @ e[n+1:k] \quad c' = \{(k \geq 1) \wedge \neg(n<0) \wedge (n<k) \wedge (e[n] == 1)\}?}{\sigma \vdash \text{squeeze}(E, n) \Rightarrow e', c \cup c'}$$

$$\frac{\sigma \vdash E \Rightarrow e, c \quad k = \text{rank}(e) \quad e' = e[1:n_1-1] @ [n_1+1:n_2-1] @ [n_2+1:n_3-1] @ \cdots @ [n_x+1:k] \quad c' = \{(k \geq 1) \wedge \forall n_{1 \sim x}.(n<0) \wedge (n<k) \wedge (e[n] == 1)\}?}{\sigma \vdash \text{squeeze}(E) \Rightarrow e', c \cup c'}$$

torch.Squeeze(x)

Require: $|x| = (d_1, d_2, \cdots, d_k)$

Guarantees: $d_n = 1$인 d를 모두 뺀 tensor 반환. $(d_1, d_2, \cdots, d_k)$

torch.Squeeze(x, n)

Require: $|x| = (d_1, d_2, \cdots, d_k), 0 \leq n < k$

Guarantees: $d_n = 1$인 경우 뺀 tensor 반환