torch.flatten

$$\frac{\sigma \vdash E \Rightarrow e, c \quad k = \mathrm{rank}(e) \quad e' = (e[1] \times \cdots \times e[k]) \quad c' = \{(k \geq 0)\}}{\sigma \vdash \mathrm{flatten}(E) \Rightarrow e', c \cup c'}$$

$$\frac{\sigma \vdash E \Rightarrow e, c \quad k = \mathrm{rank}(e) \quad e' = e[1] @ e[2] @ \cdots @ e[n-1] @ (e[n] \times \cdots \times e[k]) \quad c' = \{(k \geq 0) \wedge (n \geq 0)\}}{\sigma \vdash \mathrm{flatten}(E, n) \Rightarrow e', c \cup c'}$$

torch.flatten(x)

Require $|x| = (d_1, d_2, \cdots, d_k)$, $k \geq 0$

Guarantees $(d_1 \cdot d_2 \cdot \cdots \cdot d_k)$ tensor 반환

torch.flatten(x, n):

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

Guarantees $(d_1, d_2, \cdots, d_{n-1}, (d_n \cdot d_{n+1} \cdot \cdots \cdot d_k))$ tensor 반환