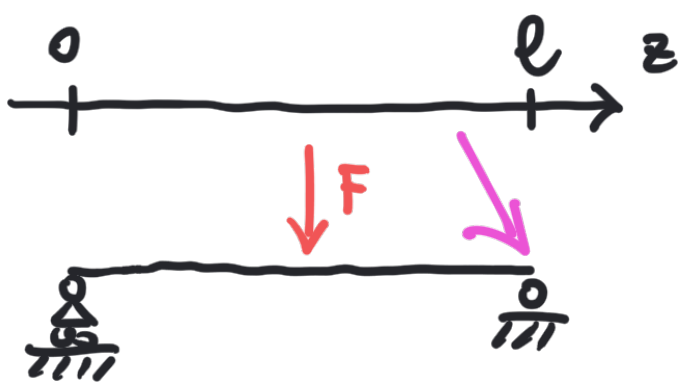
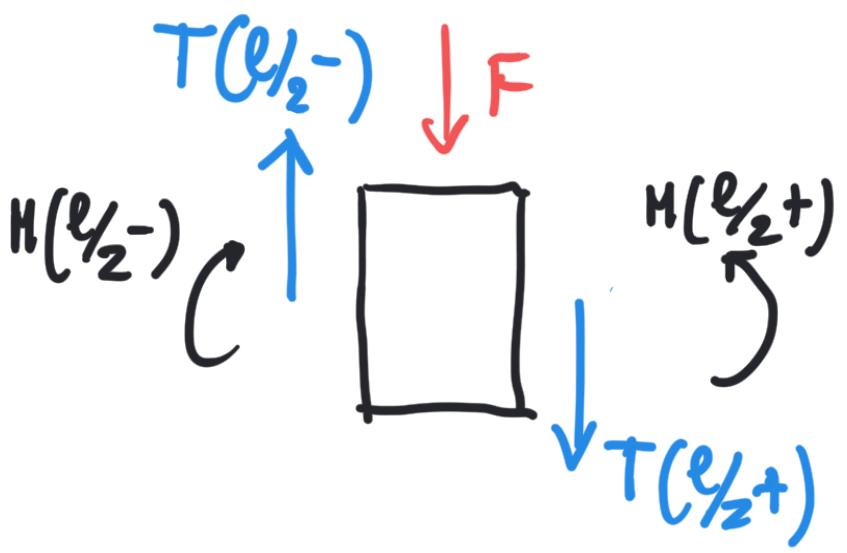
DISCONTINUITÀ





(*) $T(\ell/2+) - T(\ell/2-) + F = 0$

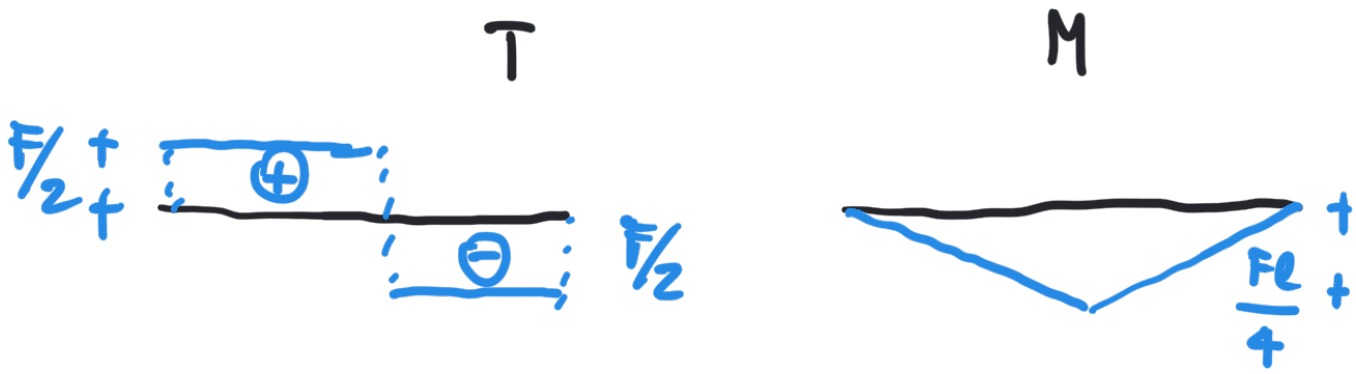
$M(\ell/2+) - M(\ell/2-) = 0$

$$T(z) = \begin{cases} c_1 & 0 < z < \ell/2 \\ c_2 & \ell/2 < z < \ell \end{cases}$$

$$M(z) = \begin{cases} c_3 + c_1 z & z < \ell/2 \\ c_4 + c_2 z & z > \ell/2 \end{cases}$$

$M(0) = 0 \Rightarrow \quad c_3 = 0$ (*)

$M(\ell) = 0 \Rightarrow \quad c_4 + \ell c_2 = 0$

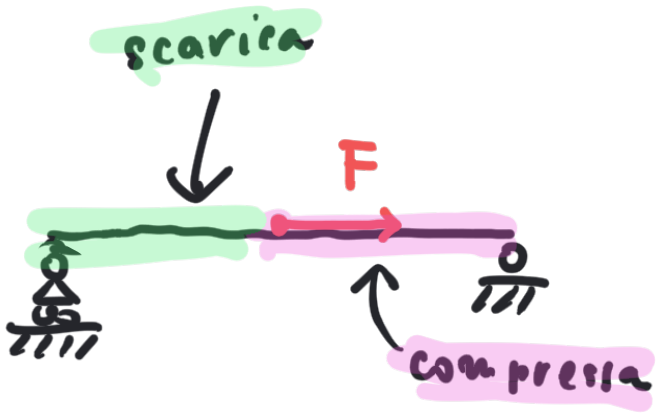


$$T(z) = \begin{cases} c_1 & 0 < z < l/2 \\ c_2 & l/2 < z < l \end{cases}$$

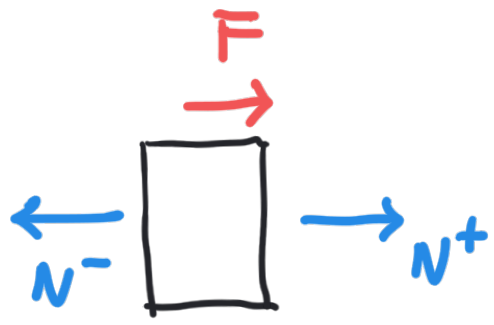
$$M(z) = \begin{cases} c_3 + c_1 z & z < l/2 \\ c_4 + c_2 z & z > l/2 \end{cases}$$

$$c_1 = F/2$$
$$c_2 = F/2$$
$$c_3 = 0$$
$$c_4 = \frac{Fl}{2}$$

DISCONTINUITÀ



$$N(z) = \begin{cases} c_1 & z < \ell/2 \\ c_2 & z > \ell/2 \end{cases}$$



$$c_1 = 0$$

$$c_2 - c_1 + F = 0$$

$$c_2 = -F$$

$$N^+ - N^- + F = 0$$

$$\Delta N + F = 0$$

CONDIZIONI DI SALTO