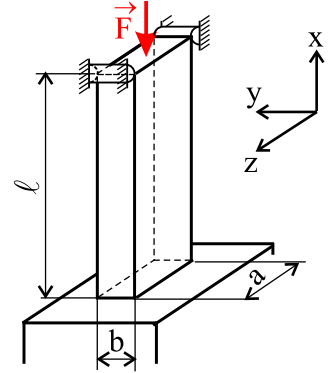

Problem 702

The straight bar with rectangular cross section is loaded by the force \vec{F} with its line of action identical with the bar centreline. The bar is supported according the figure, the material characteristics (E, σ_K) are known.

- Determine the ratio of the sides a, b of the rectangle so that the safety against buckling in both directions be the same.
- Judge the safety of the bar against the possible limit states.



Solutions stability