```
cylinder ako object with
    height:
        range        number(new value) and new value > 0
        help         print("Height must be a positive number")
        if_needed    ask
        if_removed   remove volume from this cylinder
        cache        yes;
    radius:
        range        number(new value) and new value > 0
        help         print("Radius must be a positive number")
        if_needed    ask
        if_removed   remove cross_section from this cylinder
        cache        yes;
    cross_section:
        if_needed    pi * radius of this cylinder ^ 2
        if_removed   remove volume from this cylinder
        cache        yes;
    volume:
        if_needed    cross_section of this cylinder *
                         height of this cylinder
        cache        yes!
```