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/**
 * Manipulation des statistiques corporelles.
 *
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 * Classe: 11TG
 */
public class BodyStatistics
{
    private int age = 0;
    private double height = 0;
    private double weight = 0;

    public void setAge(int pAge)
    {
        age = pAge;
    }

    public void setHeight(double pHeight)
    {
        height = pHeight;
    }

    public void setWeight(double pWeight)
    {
        weight = pWeight;
    }

    public double getNormalWeight()
    {
        // return 50 + (height-150) / 4.0 + (age-20) / 4.0;
        return height - 100;
    }

    public double getIdealWeightMan()
    {
        return getNormalWeight() * 0.9;
    }

    public double getIdealWeightWoman()
    {
        return getNormalWeight() * 0.85;
    }

    public double getBMI()
    {
        return weight / Math.pow(height/100, 2);
    }
}
```