

```
/**
 * Program simulates a long distance race by a runner
 *
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 * classe: 3GIG
 */
public class LongDistanceRace
{
    private int liquidVolume;    // water in bag in ml
    private int speed;           // speed in km/h
    private int distance;        // distance in m

    public LongDistanceRace(int pLiquidVolume, int pDistance, int pSpeed)
    {
        liquidVolume = pLiquidVolume;
        speed         = pSpeed;
        distance      = pDistance;
    }

    public int getLiquidVolume()
    {
        return liquidVolume;
    }

    public int getSpeed()
    {
        return speed;
    }

    public int getDistance()
    {
        return distance;
    }

    public double calcDistanceInKm()
    {
        return distance / 1000.0;
    }

    public double calcTime()
    {
        // calcule le temps de la course en minutes
        return calcDistanceInKm() / speed*60;
    }

    public void drink(int pVolSip)    // pVolSip in ml
    {
        // calcule le volume total de boisson de la course
        int drinks = (int)(calcTime() / 15);    // toutes les 15 minutes on boit pVolSip
        liquidVolume = liquidVolume - drinks*pVolSip;
    }

    public void printRaceStats()
    {
        String res = "Le coureur a couru "+calcDistanceInKm() + " km et il lui reste "+ liquidVolume + " ml dans son sac à dos";
        System.out.println(res);
    }
}
```