

```
/**
 * 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 time; // time in minutes

    public LongDistanceRace(int pLiquidVolume, int pTime, int pSpeed)
    {
        liquidVolume = pLiquidVolume;
        speed = pSpeed;
        time = pTime;
    }

    public int getLiquidVolume()
    {
        return liquidVolume;
    }

    public int getSpeed()
    {
        return speed;
    }

    public int getTime()
    {
        return time;
    }

    public double calcDistanceInKm()
    {
        return (time / 60.0) * speed;
    }

    public int calcDistance()
    {
        // calcule la distance de la course en mètres
        return (int)(calcDistanceInKm()*1000);
    }

    public void drink(int pVolSip) // pVolSip in ml
    {
        // calcule le volume total de boisson de la course
        int drinks = (int)(calcDistanceInKm() / 4); // tous les 4 km on boit pVolSip
        liquidVolume = liquidVolume - drinks*pVolSip;
    }

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