

S.No: 3	Exp. Name: Write a Java program to print the speeds of qualifying bikers in a Race	Date:2023-09-09
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Aim:

Five bikers compete in a race such that they drive at a constant speed which may or may not be the same as the other.

To qualify the race, the speed of a racer must be more than or equal to the average speed of all the 5 racers.

Take as input the speed of each racer and print back the speeds of qualifying racers.

Write a class `Race` with a method `main(String[] args)`. The main method receives five arguments. You can write code to parse them into `double` data type.

For example, if the values `54.55, 53.57, 54, 56.25, 57.30` are passed as arguments to the `main()` method, then the output should be

The speed of the racers \geq average speed 55.134 : 56.25 57.3

Note: Make sure to use the `print()` method and not the `println()` method.

Source Code:

Race.java

```
import java.lang.*;
public class Race
{
    static double s1,s2,s3,s4,s5,avg;
    public static void main(String args[]){
        s1=Double.valueOf(args[0]);
        s2=Double.valueOf(args[1]);
        s3=Double.valueOf(args[2]);
        s4=Double.valueOf(args[3]);
        s5=Double.valueOf(args[4]);
        double avg=(s1+s2+s3+s4+s5)/5;
        System.out.print("The speed of the racers  $\geq$  average speed "+avg+": ");
        if(s1>=avg)
            System.out.print(", "+s1);
        if(s2>=avg)
            System.out.print(", "+s2);
        if(s3>=avg)
            System.out.print(", "+s3);
        if(s4>=avg)
            System.out.print(", "+s4);
        if(s5>=avg)
            System.out.print(", "+s5);
    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output

The speed of the racers >= average speed 54.855999999999995: ,81.6,58.19,79.42
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Test Case - 2
User Output
The speed of the racers >= average speed 78.0032: ,96.21,87.26,105.63