

S.No: 3	Exp. Name: Write a Java program to print the speeds of qualifying bikers in a Race	Date:2023-09-07
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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 >= 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

```
class Race
{
    public static void main(String a[])
    {
        double[] arr=new double[5];
        double average,sum=0;
        for(int i=0;i<5;i++)
        {
            arr[i]=Double.valueOf(a[i]);
        }
        for(int i=0;i<5;i++)
            sum+=arr[i];
        average=sum/5;
        System.out.print("The speed of the racers >= average speed "+average+": ");
        for(int i=0;i<5;i++)
        {
            if(average<=arr[i])
                System.out.print(", "+arr[i]);
        }
    }
}
```

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

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