

```
import java.util.Scanner;
class Book{
    private String bookid;
    private String booktitle;
    private int no_of_pages;
    private int year_of_pub;
    private String author;
    private String publisher;
    private double price;
    Scanner sc = new Scanner(System.in);
    void getDetails(){
        System.out.println("Enter book id:");
        bookid = sc.next();
        System.out.println("Enter book title:");
        booktitle = sc.next();
        System.out.println("Enter no of pages:");
        no_of_pages = sc.nextInt();
        System.out.println("Enter year of publication:");
        year_of_pub = sc.nextInt();
        System.out.println("Enter author name:");
        author = sc.next();
        System.out.println("Enter publisher name:");
        publisher = sc.next();
        System.out.println("Enter price:");
        price = sc.nextDouble();
    }

    void printDetails(){
        System.out.println("The book details are:");
        System.out.println("book id: "+ bookid);
        System.out.println("book title: "+ booktitle);
        System.out.println("no of pages: "+ no_of_pages);
        System.out.println("year of publish: "+year_of_pub);
        System.out.println("author name: "+ author);
        System.out.println("publisher: "+ publisher);
        System.out.println("price: "+ price);
    }

    String bookByAuthor(){
        return author;
    }
}
```

```

String bookByAuthor(){
    return author;
}

double expensive(){
    return price;
}

int count(){
    return year_of_pub;
}
int pages(){
    return no_of_pages;
}
}

public class B {
    public static void main(String[] args){
        Book b1 = new Book();
        Book b2 = new Book();
        Book b3 = new Book();
        Scanner sc = new Scanner(System.in);
        System.out.println("\n\nBook 1");
        b1.getDetails();
        System.out.println("\n\nBook 2");
        b2.getDetails();
        System.out.println("\n\nBook 3");
        b3.getDetails();
        System.out.println("\n\nBook 1");
        b1.printDetails();
        System.out.println("\n\nBook 2");
        b2.printDetails();
        System.out.println("\n\nBook 3");
        b3.printDetails();

        String auth, bk1, bk2, bk3;
        System.out.println("\n\nEnter author name to find his book:");
        auth = sc.next();
        bk1 = b1.bookByAuthor();
        if (bk1.equals(auth)){
            b1.printDetails();
        }
    }
}

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if (bk1.equals(auth)){
    b1.printDetails();
}
bk2 = b2.bookByAuthor();
if (bk2.equals(auth)){
    b2.printDetails();
}
bk3 = b3.bookByAuthor();
if (bk3.equals(auth)){
    b3.printDetails();
}

double p1, p2, p3;
p1 = b1.expensive();
p2 = b2.expensive();
p3 = b3.expensive();
System.out.println("\n\nThe details of most expensive book are:");
if(p1>p2){
    if(p1>p3){
        b1.printDetails();
    }
    else{
        b3.printDetails();
    }
}
else {
    if(p2>p3){
        b2.printDetails();
    }
    else{
        b3.printDetails();
    }
}

int count = 0,c1, c2, c3;
c1 = b1.count();
if(c1==2020){
    count++;
}
c2 = b2.count();
if(c2==2020){
    count++;
}

```

```

    }
}

int count = 0, c1, c2, c3;
c1 = b1.count();
if(c1==2020){
    count++;
}
c2 = b2.count();
if(c2==2020){
    count++;
}
c3 = b3.count();
if(c3==2020){
    count++;
}
System.out.println("\n\nno of books published in 2020: "+ count);

int page, pg1, pg2, pg3;
pg1=b1.pages();
pg2=b2.pages();
pg3=b3.pages();
System.out.println("\n\nbook with least pages:");
    if(pg1<pg2){
        if(pg1<pg3){
            b1.printDetails();
        }
        else{
            b3.printDetails();
        }
    }
else {
    if(pg2<pg3){
        b2.printDetails();
    }
    else{
        b3.printDetails();
    }
}
}
}
}

```

Book 1  
Enter book id:  
1  
Enter book title:  
a  
Enter no of pages:  
250  
Enter year of publication:  
2017  
Enter author name:  
p  
Enter publisher name:  
l  
Enter price:  
2000

Book 2  
Enter book id:  
2  
Enter book title:  
b  
Enter no of pages:  
300  
Enter year of publication:  
2020  
Enter author name:  
q  
Enter publisher name:  
r  
Enter price:  
1500

Book 3  
Enter book id:  
3  
Enter book title:  
c  
Enter no of pages:  
380  
Enter year of publication:  
2020  
Enter author name:  
o  
Enter publisher name:  
i  
Enter price:  
3000

Book 1  
The book details are:  
book id: 1  
book title: a  
no of pages: 250  
year of publish: 2017  
author name: p  
publisher: l  
price: 2000.0

Book 2  
The book details are:  
book id: 2  
book title: b  
no of pages: 300  
year of publish: 2020  
author name: q  
publisher: r  
price: 1500.0

Book 3  
The book details are:  
book id: 3  
book title: c  
no of pages: 380  
year of publish: 2020  
author name: o  
publisher: i  
price: 3000.0

Enter author name to find his book:  
a

The details of most expensive book are:  
The book details are:  
book id: 3  
book title: c  
no of pages: 380  
year of publish: 2020  
author name: o  
publisher: i  
price: 3000.0



```
Book 3
The book details are:
book id: 3
book title: c
no of pages: 380
year of publish: 2020
author name: o
publisher: i
price: 3000.0
```

```
Enter author name to find his book:
a
```

```
The details of most expensive book are:
The book details are:
book id: 3
book title: c
no of pages: 380
year of publish: 2020
author name: o
publisher: i
price: 3000.0
```

```
no of books published in 2020: 2
```

```
book with least pages:
The book details are:
book id: 1
book title: a
no of pages: 250
year of publish: 2017
author name: p
publisher: l
price: 2000.0
```

```
C:\Users\PUNEETH K\Desktop\JAVA>
```

```

import java.util.*;
class Player{
    int id;
    String name;
    int matches;
    int score[]=new int[matches];
    void setDim(){
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the Player name");
        name = in.nextLine();
        System.out.println("Enter Player Id");
        id = in.nextInt();
        System.out.println("Enter number of matches played");
        matches = in.nextInt();
        System.out.println("Enter the Scores of player");
        score = new int[matches];
        for(int i=0;i<matches;i++){
            score[i]=in.nextInt();
        }
    }
    double Calculate(){
        double avg=0;
        for(int i=0;i<matches;i++){
            avg+=score[i];
        }
        return avg/matches;
    }
}
class Play{
    public static void main(String args[]){
        Player p1 = new Player();
        Player p2 = new Player();
        p1.setDim();
        p2.setDim();
        if(p1.Calculate()>p2.Calculate())
            System.out.println("Player 1 average score is "+p1.Calculate()+" and is grater than player 2 average that is "+p2.Calculate());
        else
            System.out.println("Player 2 average score is "+p2.Calculate()+" and is grater than player 1 average that is "+p1.Calculate());
    }
}

```



```
C:\Users\PUNEETH K\Desktop\JAVA>javac Play.java
```

```
C:\Users\PUNEETH K\Desktop\JAVA>java Play
```

```
Enter the Player name
```

```
pun
```

```
Enter Player Id
```

```
125
```

```
Enter number of matches played
```

```
3
```

```
Enter the Scores of player
```

```
56
```

```
85
```

```
42
```

```
Enter the Player name
```

```
rak
```

```
Enter Player Id
```

```
456
```

```
Enter number of matches played
```

```
4
```

```
Enter the Scores of player
```

```
23
```

```
45
```

```
56
```

```
74
```

```
Player 1 average score is 61.0 and is grater than player 2 average that is 49.5
```

```
C:\Users\PUNEETH K\Desktop\JAVA>
```