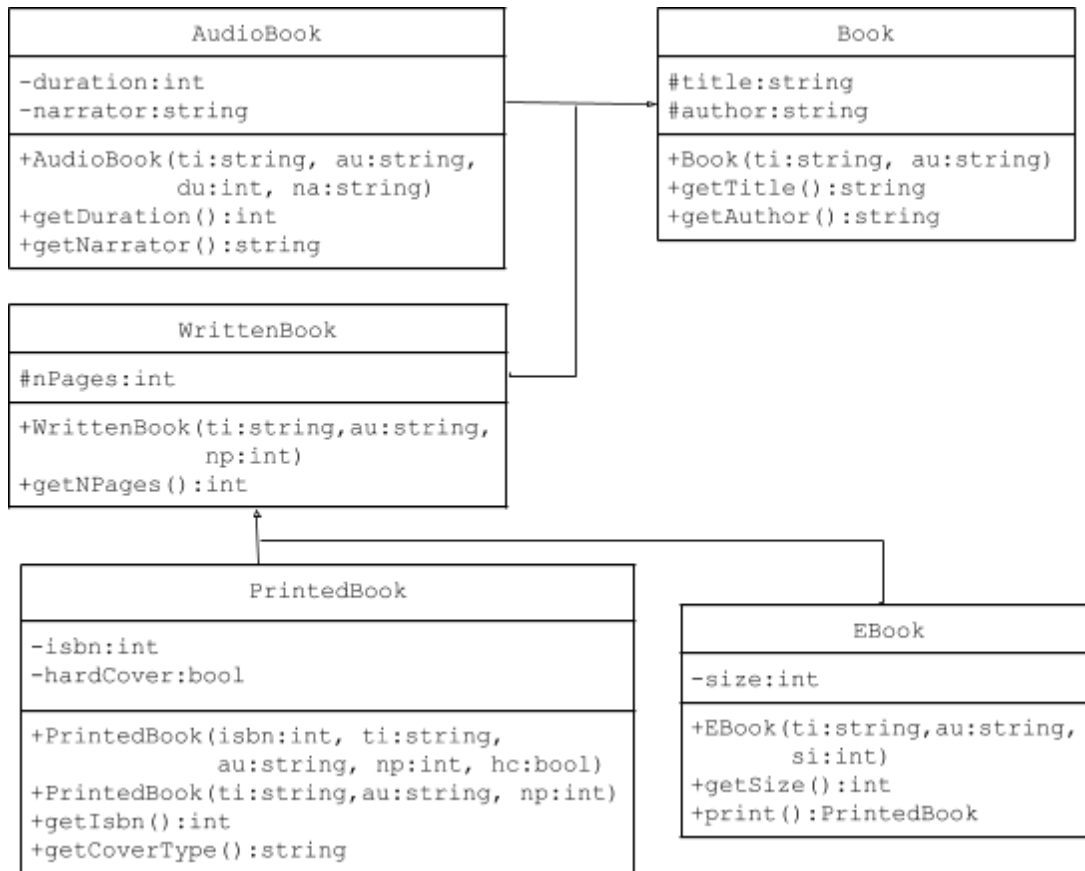


Implement the following classes:



Class Book:

- title and author: represent the title of the book and its author
- Book(ti:string, au:string): a constructor that initializes title and author respectively

Class AudioBook:

- duration: length of the audio clip in minutes
- narrator: name of the person whose voice is recorded
- AudioBook(ti:string, au:string, du:int, na:string): initializes title, author, duration and narrator respectively

Class WrittenBook:

- count of the pages of the book
- WrittenBook(ti:string, au:string, np:int): initializes title, author and nPages respectively

Class PrintedBook:

- isbn: stores the international standard book number
- hardCover: it true if the book has a hardcover and false if it has paperback cover
- PrintedBook(isbn:int, ti:string, au:string, np:int, hc:bool): a constructor that initializes isbn, title, author, nPages and hardCover respectively
- PrintedBook(ti:string, au:string, np:int): a constructor that initializes title, author and nPages to the passed arguments respectively, and initializes isbn to 0 and hardCover to false.

Class Ebook:

- size: storage size of the ebook file in MBs
- Ebook(ti:string, au:string, si:int): initializes title, author and size respectively
- print(): returns an object of type PrintedBook that has that same title, author and nPages as the current Ebook

Solution:

```
class Book{
    protected String title;
    protected String author;
    public Book(String ti, String au){
        title = ti;
        author = au;
    }
    public String getTitle(){
        return title;
    }
    public String getAuthor(){
        return author;
    }
}
```

```
class AudioBook extends Book{
    private int duration;
    private String narrator;
    public AudioBook(String ti, String au, int du, String na){
        super(ti, au);
        duration = du;
        narrator = na;
    }
    public int getDuration(){
        return duration;
    }
    public String getNarrator(){
        return narrator;
    }
}
```

```
class WrittenBook extends Book{
    protected int nPages;
    public WrittenBook(String ti, String au, int np){
        super(ti, au);
        nPages = np;
    }
    public int getNPages(){
        return nPages;
    }
}
```

```
class PrintedBook extends WrittenBook{
    private int isbn;
    private boolean hardCover;
    public PrintedBook(int isbn,String ti,String au,int np,boolean hc){
        super(ti, au, np);
        this.isbn = isbn;
        hardCover = hc;
    }
}
```

```
public PrintedBook(String ti,String au,int np){
    this(0, ti, au, np, false);
}
public int getIsbn(){
    return isbn;
}
public String getCoverType(){
    return hardCover? "Hardcover":"Paperback";
}
}
```

```
class EBook extends WrittenBook{
    private int size;
    public EBook(String ti, String au, int np, int si){
        super(ti, au, np);
        size = si;
    }
    public int getSize(){
        return size;
    }
    public PrintedBook print(){
        PrintedBook pb;
        pb = new PrintedBook(title, author, nPages);
        return pb;
    }
}
```