9æM-^\M-^H 14, 18 19:31					Pa	ge 1/
*****************						
Student Name = Jitong Ding						
**************	##					
CSE017 Grading sheet for Jitong Ding						
Homework Assignment Play						
Total points max	imum:	100				
Completeness: All class/methods included (4	] (C	2	10	]		
Compilation: Program compiles (20)	[	2	20	]		
Execution: Program executes properly (30)	[	2	29	]		
Style: Program obeys style rules (10)	[	1	0	]		
Subtotal		ç	9			
Late Penalty	-					
Total Points				•		
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**************************************						

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Play.java
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   /**
   CSE 17
   Jitona Dina
   jid221
   Homework #2
                  Deadline: September 11, 2018
   Program: A class for theatrical plays
   import java.util.Scanner;
10 /** A class can represent aspecific production in the theaters season and
     * can print out the total revenue of the theater's seson*/
   public class Play{
     /** Date field*/
     /** A data field named title for the name of the play. */
     String title;
     /** A data field named director for the director of the play. */
     String director:
     /**A data field named dateList of the performed dates */
    String[] dateList;
     /** Construct a new Play with title, director and dateList[] */
     public Play(String aName, String aDirector, String[] aDateList){
       title = aName:
25
       director = aDirector;
       dateList = aDateList;
     /** Construct a new Play with title and dateList[] */
     public Play(String playName, String[] playDateList){
       title = playName;
       dateList = playDateList;
       director = "TBD";
35
     /** An instance method return the length of the dateList[] */
     public int getNumberOfDates() {
       return dateList.length;
40
     /** Return the total revenue based on all of the plays and the percentage of t
   ickets sold */
     public static double estimateRevenue(Play[] playsList, double ticketPrice, int
    seatNumbers, double ticketsSell) {
       int sum = 0:
       for(int i =0; i < playsList.length; ++i){</pre>
         sum += playsList[i].dateList.length;
45
       double revenue = seatNumbers * ticketsSell * ticketPrice * sum;
       return revenue;
     /** Print a table of the total revenue based on the different percentage ticke
     public static void printRevenueTable(Play[] aPlaysList, double aTicketsPrice,
   int aSeatNumbers) {
       System.out.println("Seats Sold Revenue");
       System.out.println("--
       int seats = aSeatNumbers;
       int i =70:
        /** A while loop to print the revenue table */
       while (i<=100) {
           System.out.printf("%d(%d%%)\t %6.2f\n", seats*i/100, i,
                             estimateRevenue(aPlaysList, aTicketsPrice, seats, (dou
   ble)i/100));
           System.out.printf("%d(%d%%)\t %6.2f\n", seats*i/100, i,
                              estimateRevenue(aPlaysList, aTicketsPrice, seats, (dou
   ble)i/100));
```

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Play.java
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            i += 5:
70
      /** The main method */
     public static void main(String[] args){
        /** Creat five Play Objects */
        Play[] show = new Play[5];
        show[0] = new Play ("The Royal Family", "Robert Callan Adams",
          new String[]{"1/31", "2/1", "2/7", "2/8", "2/9", "2/13", "2/14", "2/15", "2/16"});
80
        show[1] = new Play ("La Cage aux Folles", "Brenda McGuire",
          new String[]{"3/28", "3/29", "4/4", "4/5", "4/6", "4/10", "4/11", "4/12", "4/13"})
        show[2] = new Play("To Kill a Mockingbird", "George Miller",
          new String[] {"5/30", "5/31", "6/6", "6/7", "6/8", "6/12", "6/13", "6/14", "6/15"}
        show[3] = new Play("Annie Get Your Gun", "Mark Breiner",
new String[]{"7/25", "7/26", "8/1", "8/2", "8/3", "8/7", "8/8", "8/9", "8/10"});
85
        show[4] = new Play ("I Love You, You're Perfect, Now Change",
          new String[]{"9/26", "9/27", "10/3", "10/4", "10/5", "10/9", "10/11", "10/12", "10/
    13"}):
        /** Print a list of the title the plays with the number */
        for(int i=0; i<show.length; ++i){</pre>
          System.out.printf("%d:%s\n", i+1, show[i].title);
        /** Create a scanner that takes scan from the standard input device */
        Scanner scan = new Scanner(System.in);
95
        /** Ask the user to enter the number of a play, and prints its director */
        System.out.println("Enter a show's number and I'll tell you the director:");
        int m = scan.nextInt();
        System.out.println(show[m-1].director);
100
        /** Ask the user to enter the number of a play, and prints its dateList[] */
        System.out.println();
        System.out.println("Enter a show's number and I'll tell you it's dates:");
        int n = scan.nextInt();
        /** A for loop to print the data in dateList */
        for (int j = 0; j < show[n-1].dateList.length; ++j){</pre>
          System.out.print(show[n-1].dateList[j]);
          if (j==show[n-1].dateList.length-1){
             System.out.print("\n\n");
               System.out.print(",");
115
        int totalSeats = 160:
        /** Ask the user to enter the price of the play and print the revenue table
        System.out.println("Enter a ticket price:");
        double p = scan.nextDouble();
        printRevenueTable(show, p, totalSeats);
125
130
```

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	###############		
*****	*****	******	
######### Co	mpiled Result ###	##########	
Source Code Comp	ilation:		
#############	##############	##########	
	################		
######### Ex	ecution Result ##	##########	
##############	###############	* # # # # # # # # # # # #	
	###############	#########	
Test1 output - t	estOutput1.txt		
1:The Royal Fami	ly		
2:La Cage aux Fo 3:To Kill a Mock	lles		
4:Annie Get Your	Gun		
	u're Perfect, Now umber and I'll te	Change ell you the director:	
TBD	ambor and r rr co	arr you one arrestor.	
Enter a show's n	umber and I'll te	ell you it's dates:	
	4/5, 4/6, 4/10,	4/11, 4/12, 4/13	
Enter a ticket p Seats Sold Rev			
112 ( 70%)	110880.00 118800.00 126720.00 134640.00		
120 ( 75%) 128 ( 80%)	118800.00	Revenue values a	-
136 ( 85%)	134640.00	formatted offset to	)
144 ( 90%) 152 ( 95%)	142560.00 150480.00	the right (-1)	
160 (100%)	158400.00		
Test2 output - t	######################################	*****	
1: The Royal Fami 2: La Cage aux Fo			
3:To Kiĺl a Mock	ingbird		
4:Annie Get Your 5:I Love You, Yo	u're Perfect, Now	Change	
Enter a show's n		ell you the director:	
George Miller			
	umber and I'll te 8/2, 8/3, 8/7, 8	ell you it's dates: 8/8, 8/9, 8/10	
Enter a ticket p	rice:		
	enue		
112 ( 70%) 120 ( 75%)	83563.20 89532.00		
128 ( 80%)	95500.80		

			Printed by Ren Pang
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136 ( 85%) 101- 144 ( 90%) 107-	469.60 438.40		
144 (90%) 107 152 (95%) 113 160 (100%) 119	407.20 376.00		