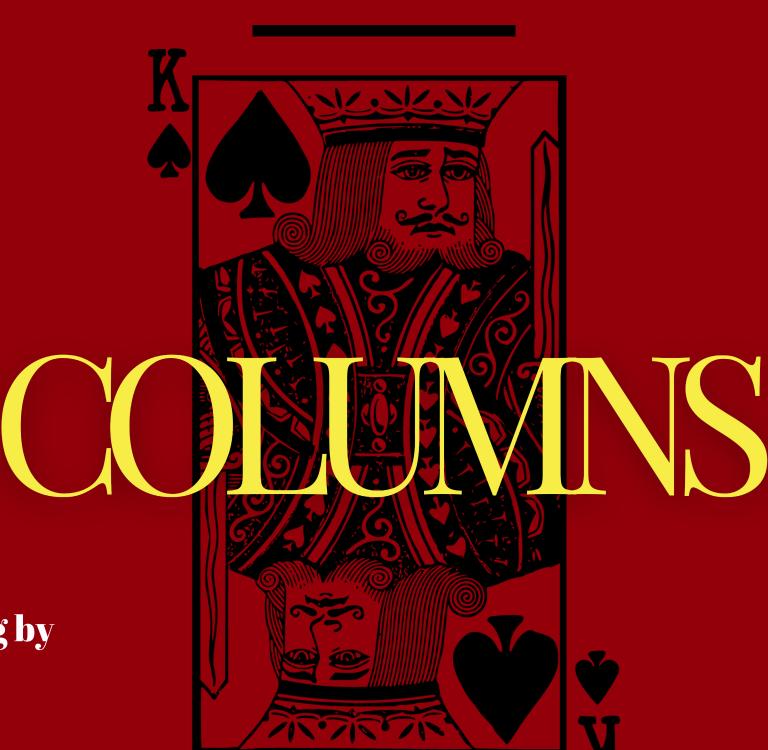






PROJECT-3 PRESENTATION



CME1252-Project Based Learning by

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```

```
All Cards

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

This game box contains 5 each of the numbers 1to10

Also, these cards are mixed in the box.

Mixed cards in the box

1 3 2 6 8 4 9 10 7 5

3 10 8 1 4 2 6 9 5 7

8 4 2 5 1 7 9 10 6 3

10 1 5 2 4 8 3 7 6 9

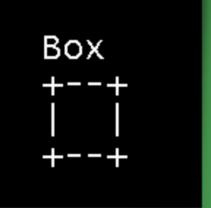
3 4 10 1 2 8 6 7 9 2
```



Shuffled Box



Number set: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 5 sets in total







5 columns

C1	C2	C3	C4	C5
1	3	2	6	8
1 4 3	9	10	7	5
	10	8	1	4
2	6	9	5	7
8	4	2	5	1



The aim is reaching the highest score by collecting number sets



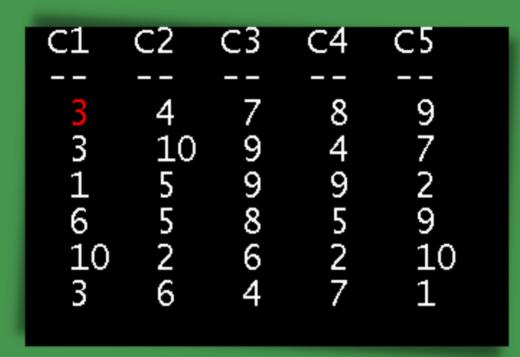


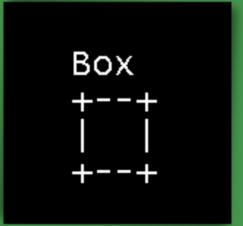


Single Linked List Double Linked List Multi Linked List Classes **Functions and Procedures** Enigma console Loops, cases, if statements Different kind of variables Imported libraries



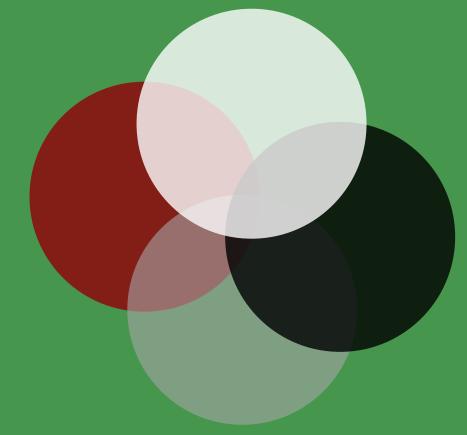






5 Columns
Numbers from 1 to 10
Shuffled Box
High Score Table
Shuffled Box







Designing game screen
First number distribution
Z Key
Columns
Transfer operations



MLL class
Printing the Screen
B,X and Arrow Keys
Transfer Conditions



Box DLL class High Score Table End game conditions and score



Game Screen
Game info
Sound Effects
Transfer Conditions



WEEK 1

- Design of classes
- Data structures
- Screen
- Load operations

WEEK 2

- Box implementation
- Initial distribution
- High Score Table

WEEK 3

No ProgressMade

WEEK 4

- Columns
- Transfer operations
- Arrow keys

WEEK 5

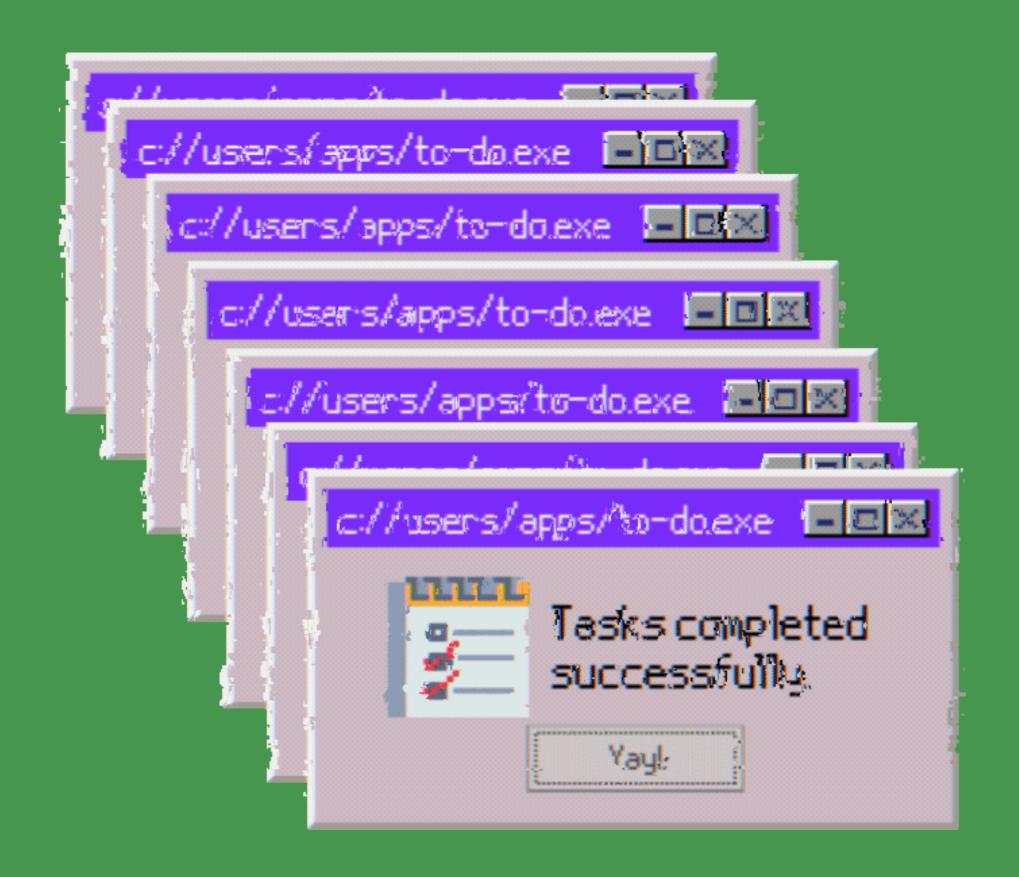
- Remaining parts of the game
- Debugging
- Testing





Designing Classes Designing Data Structures Screen Load Operations Box Implementation Initial Number Distribution High Score Table Columns Transfer Operations







SOUND EFFECTS







- 1.Game Info
- 2.Start Game
- 3.High Score Table 4.Exit

Enter your choice : |

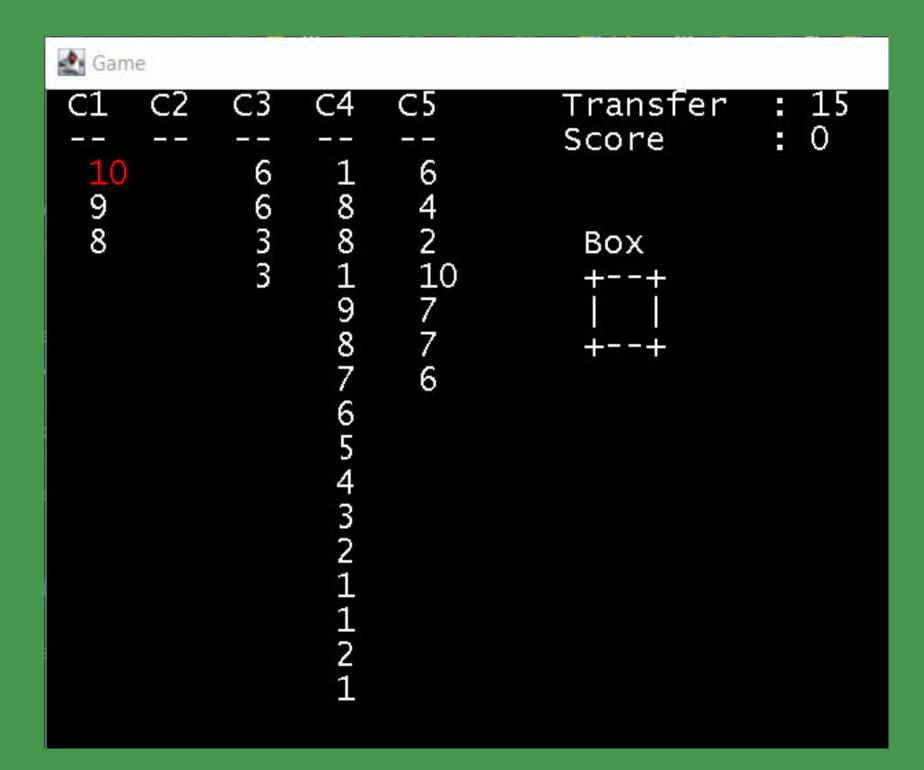
GANE INFO





MOVE TO EMPTY COLUMN

MOVE ELEMENT TO **EMPTY** COLUMN





SHUFFLE THE BOX

```
randomForBox(sll) {
 from 1 to 50 {
    creating a random number (1-sllSize)
    from 1 to random number {
      temp = temp.getLink up to the random number
    add temp to mixedBox
    delete temp from the sll
    decrease the sllSize
```



10 SET CONTROL

```
sset10() {
    navigate the columns
    navigate the elements in the checked column
    if(current column size equals to 10) {
         difference = current number - previous number
         if(difference == 1 along this column or
              difference == -1 along this column) {
              condition is true
              break
    if (condition is true)
         return current column number
    else
         return 0
```



TRANSFER OPERATIONS

```
transferRemover(mll, column, height) {
   temp = mll.head
   tempE = null
   isChoosenRight = true
   for each i from 0 to column-1 {
       temp = temp.getDown
   }
   tempE = temp.getRight()
   for each i from 0 to height-2 {
       tempE = tempE.getNext
   }
   set tempE.Next to null
   if elementSize(column) equals to 1 and height equals to 1
       set temp.Right to null
```

```
transferAdder(mll, column, sll) {
   temp = sll.head
   while temp is not equal to null {
      mll.addElement(column, temp.getData)
      if temp.getLink is not equal to null
        temp = temp.getLink
      else
        exit the loop
   }
}
```



```
Game
1.Game Info
2.Start Game
3.High Score Table
4.Exit
Enter your choice : |
```



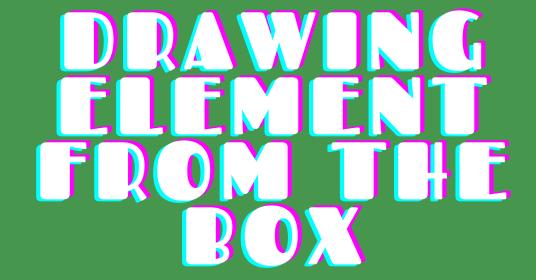


	KL		5
E1	J		F
1			

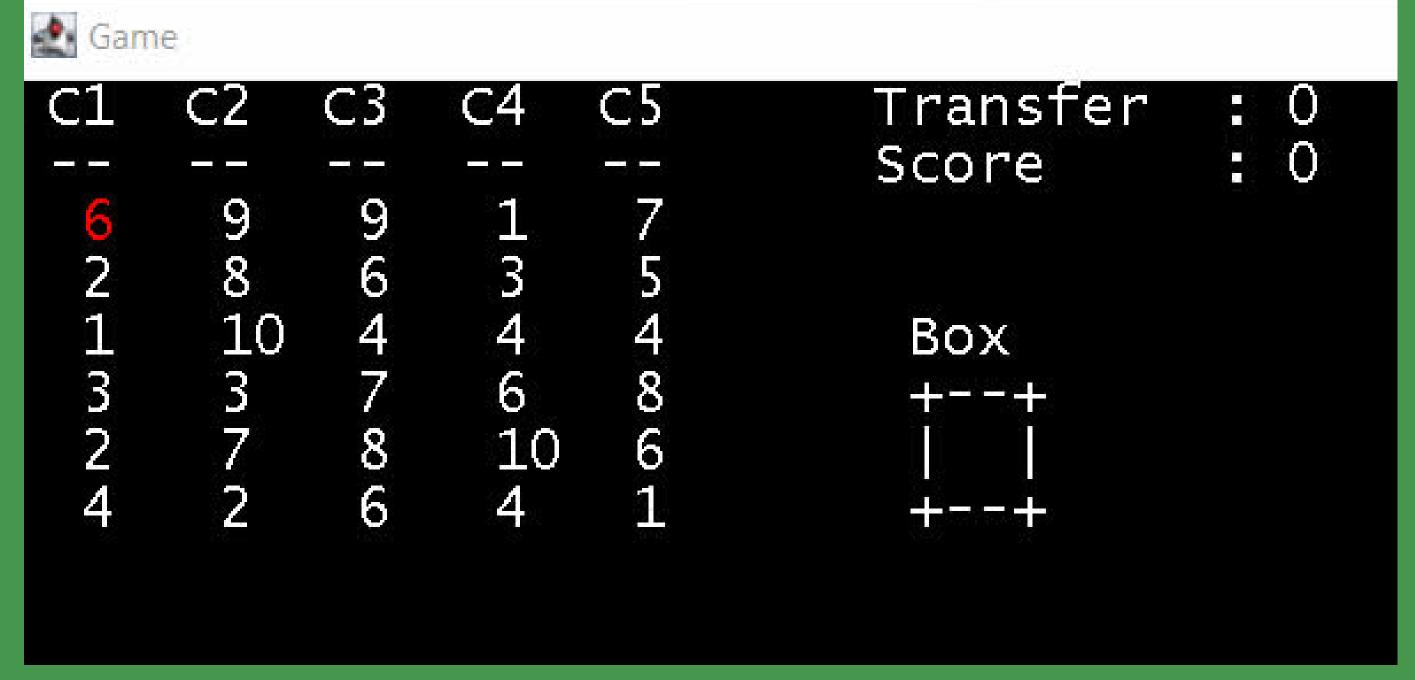
```
Game
                                           Transfer
                                           Score
         9
8
5
                       5
10
  487
                1
2
8
2
1
9
8
7
                                             Box
                                                         z key: OFF
  9456326789
```



CT	C2	C3	C4	C5	Transfer		
-1-		-0-	- 5-	-0-	Score	0	
10	1	6	10	3			
10	7	7	2	4			
	Ó	É			Desc		
10	8	5	9	4	Вох		
9		2	6	2	++		
8		4	7	5			
7		9	8		++		
6		5	1				
5		4	$\frac{1}{2}$				



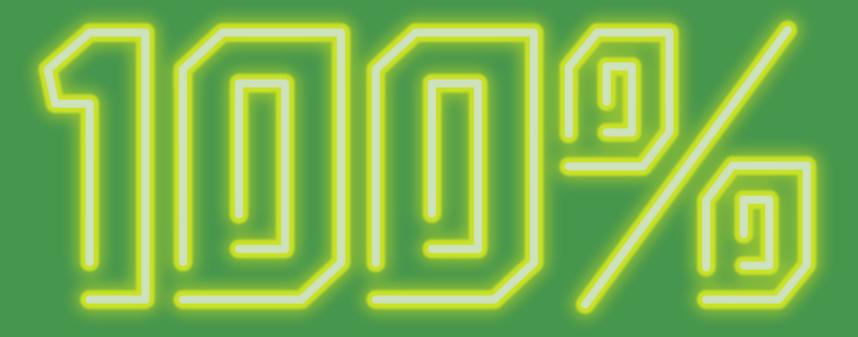




MOVING IN AND BETWEEN COLUMNS



THE PROJECT WAS COMPLETED SUCCESSFULLY AND EARLIER THAN THE REQUESTED TIME, AND NEW ADDITIONS WERE MADE.





[1] Playing audio File in Eclipse. (2017, May 16). Stack Overflow. [2] patorjk.com. (n.d.). Patorjk. Retrieved May 22, 2022.





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