



## PROJECT – III SOLICENG

CME1252 Project Based Learning - II

BY

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IZMIR 6/19/2022

#### Outline

#### **INTRODUCTION**

#### **PROGRESS SUMMARY**

- Requirements
- Task Sharing
- Scheduling
- Completed Tasks
- Additional Improvements

#### PROBLEMS ENCOUNTERED

**ALGORITHMS AND SOLUTION STRATEGIES** 

**SCREENSHOTS** 

**CONCLUSION** 

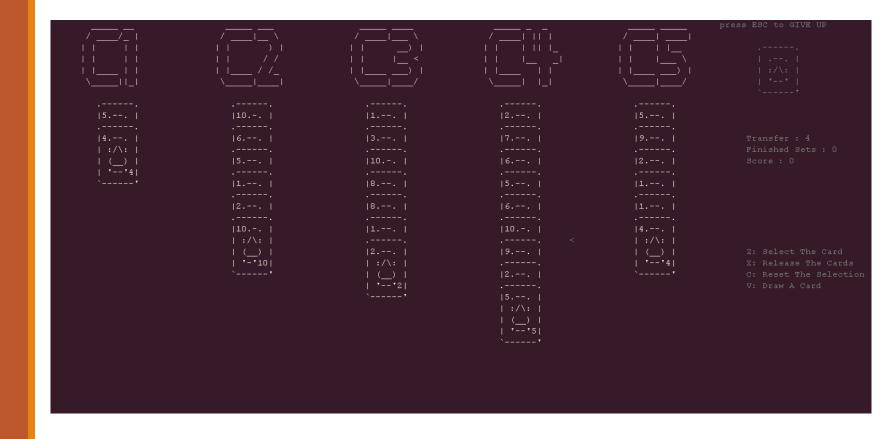
**QUESTIONS** 

**REFERENCES** 

#### Introduction

\* A number stacking game

•The Project is a puzzle game in which you get to move around a stack of numbers to form an ordered set from 1 to 10 (or the other way around for points.



### Progress Summary: Requirements

- Transfer Algorithm
- Box Algorithm
- Enigma Java Library
- Linked Lists
   (Single, Double & Multi)



## Progress Summary: Task Sharing

Arda: Transfer
Operation

Yusuf: UI, creating columns, box implementation, initial distribution, general design of the code

Güney: Highscore table operations and general code design Yunus:
Cursor movement
and
Set detection

## Progress Summary: Scheduling

#### The tasks are completed on scheduled dates.

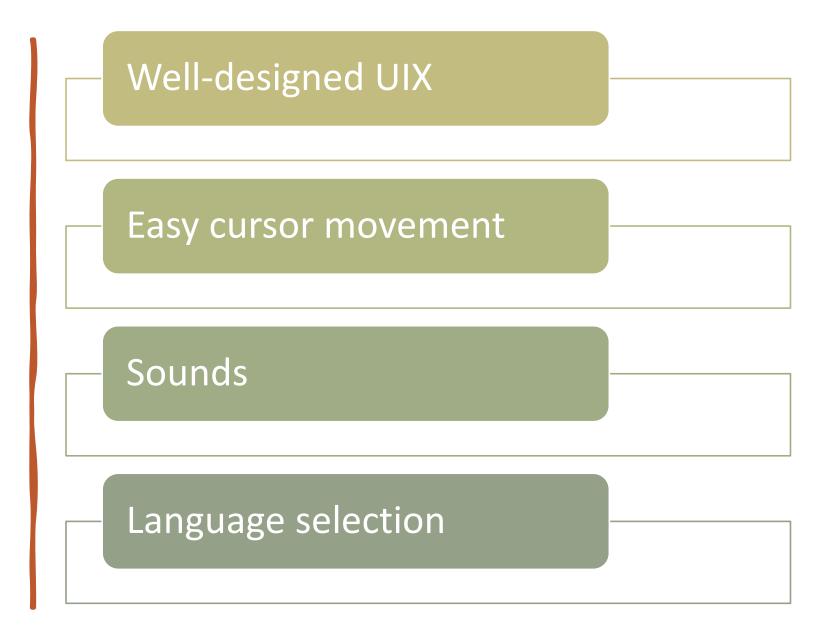
Task \ Week	1	2	3	4	5
Design of classes, data structures, screen.	X				
Load operations.					
Box implementation. Initial distribution		X			
of the box on the screen.					
High Score Table			X		
Columns. Transfer operations.				X	
Remaining parts of the game,					X
debugging/testing.					

### Progress Summary: Completed Tasks

All tasks (Gameplay, score, etc.) were completed.



Progress
Summary:
Additional
Improvements

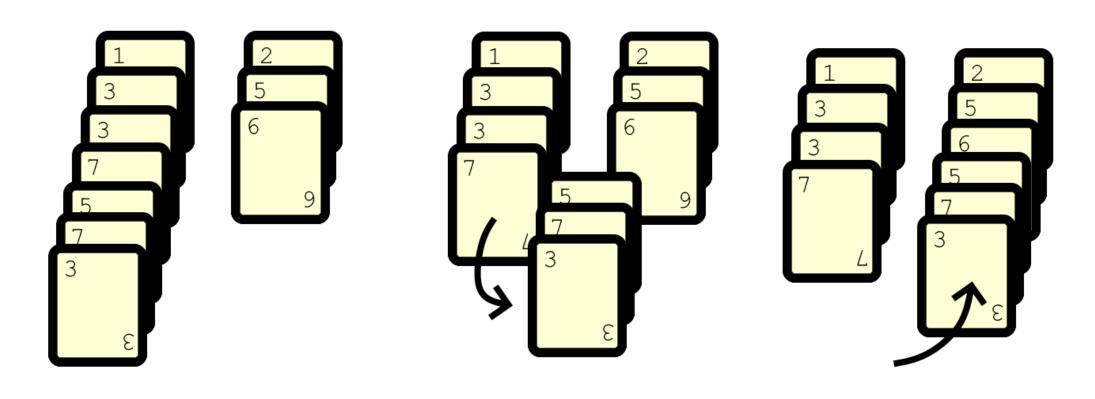




#### Problems Encountered

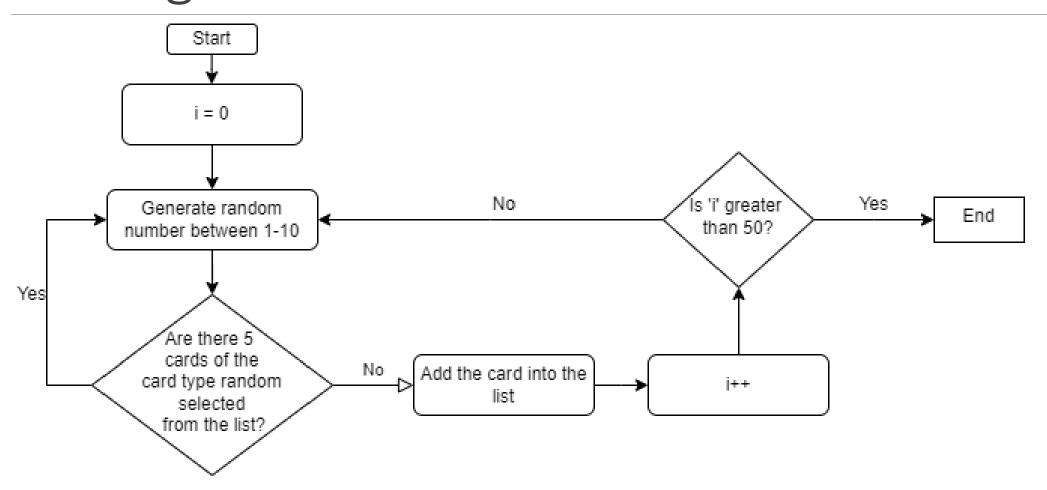
No Problems Encountered

## Algorithms and Solution Strategies: Transfer operation implementation

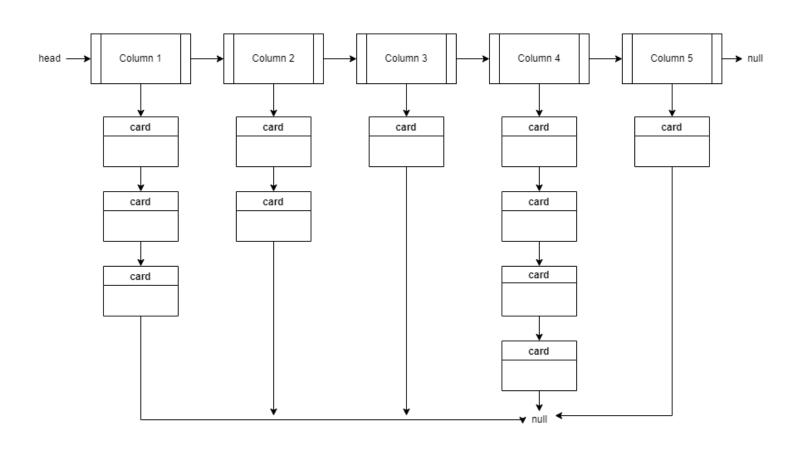


#### Algorithms and Solution Strategies: Set finder

# Algorithms and Solution Strategies: Box Algorithm



# Algorithms and Solution Strategies: Column Algorithm (Main Game)



## Algorithms and Solution Strategies: Sorting Algorithm

1500 2500 2000 1000 2500 1500 2000 1000 2500 2000 1500 1000

### Screenshots





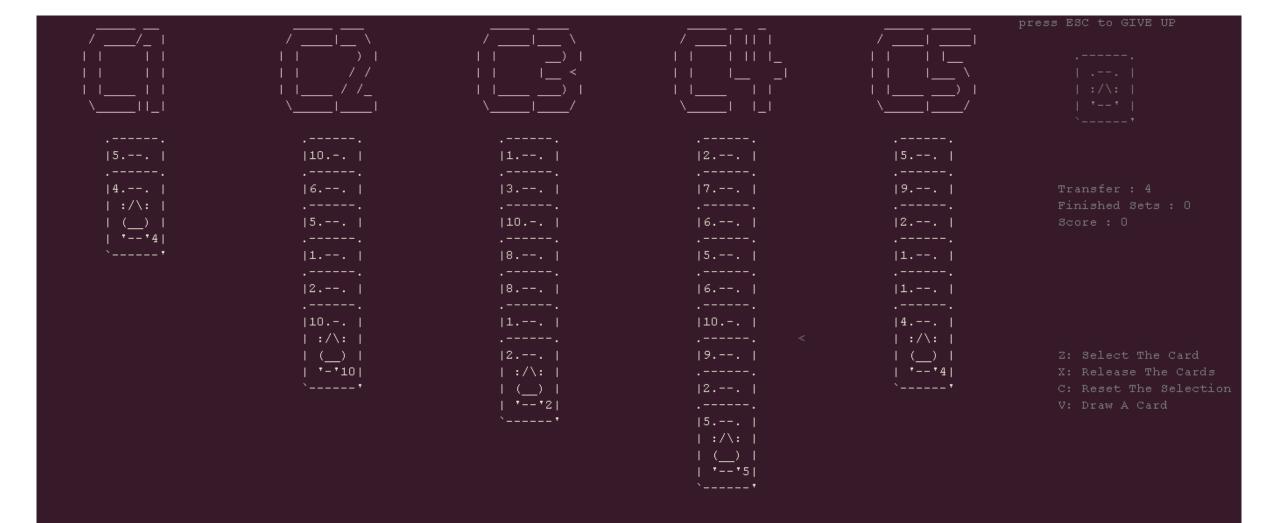






















Ahmet 2520.0 Tarik Deniz 521.07 Sema Firat 378.24 Seda Ruzgar 224.67 Ali Vadi 136.32 Ahmet 2520.0 Farik Deniz 521.07 Sema Firat 378.24 Seda Ruzgar 224.67

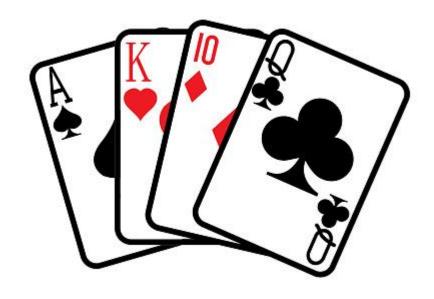
Your Score : 2520 [

Please press any letter then press enter to go to main menu.

#### Conclusion

Management of stack of cards.

Linked Lists.



## Any Questions?

#### References

- ❖ https://www.javatpoint.com/java-program-to-create-and-display-a-singly-linked-list#:~:text=The%20singly%20linked%20list%20is,next%20node%20in%20the%20list.
- https://www.geeksforgeeks.org/merge-sort-for-doublylinked-list/
- https://en.wikipedia.org/wiki/UTF-8#:~:text=Defined%20by%20the%20Unicode%20Standard,Tra nsformation%20Format%20%E2%80%93%208%2Dbit.&text= UTF%2D8%20is%20capable%20of,8%2Dbit)%20code%20units