

# DSA: Final Project

Habib University

Spring 2020

## Dinoventure Game

A Dino had a rough day and goes out for a walk. Lost in his thoughts, he loses track of where he is and ends up entering Habib University. He has entered Habib accidentally and has realised that the security is tight and anyone caught will be questioned. Dino is worried because he is unaware of what the security might do. Luckily, Dino knows a student in HU and he is sure that his friend will help him escape. However, he doesn't know where he is. You are to help Dino find his friend! It is your responsibility to navigate Dino and help him keep out of the sight of others especially security guards.

In order to help, you will be given riddles based on the HU campus. The solution of each riddle is the destination you must go to where you will be given another riddle. These riddles will lead Dino to his friend who will tell him where the exit is. Make sure to watch out for security guards!

### Instructions:

- You are given 20 points initially.
- There are 3 destinations that Dino must visit (i.e 3 riddles).
- Upon reaching each destination, a new riddle will pop up.
- Solve each riddle correctly to know where to go next.
- Use the up,down,left,right keys in order to move Dino in the respective directions.
- Once Dino meets his friend without being caught, you win.
- If Dino is caught by a security guard, you lose.

### Rules:

- Cost of one hint is: **10** points. Cost of slowing down the guards speed: **5** points.
- Security guards are at random places and on the watch, try to keep Dino out of their way.
- You will be timed! If you take too long on a riddle, the security guards can spot Dino.
- If any guard spots Dino, they will chase him.
- If time runs out while solving a riddle, a guard will automatically catch Dino.

- If your points run out, you have no choice but to solve riddles without a hint and keep Dino out of the sight of guards but the game will continue.

Project by:

Shayan Aamir, Shafaq Fatima Mughal and Samarah Asghar Sahto.