

BIL105E

Introduction to Computer Science and Engineering

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## 1.Introduction

The aim of this project is to simulate a pass game between two teams. Desired number of players (N) needs to pass the ball between desired number of players (W) to win a round. First team that reaches to desired won of rounds (S) wins. Pass has a desired success rate over one hundred (P) and opposite team has rest of the probability (100-P) to get the ball.

## 2.Development

The program developed and tested on both on a Windows Compter and on ITU SSH Linux server. More info can be found on the source code, named as 150150701.c.

## 3.Variables

N: Number of players

S: Rounds needed to win, to win the game (Score)

P: Success rate of the pass between team players (on a scale of 0 to 100)

W: Number of players needs to pass between to win a round and get a score

score1: Score of team 1

score2: Score of team 2

player: Indicator of the player who has the ball

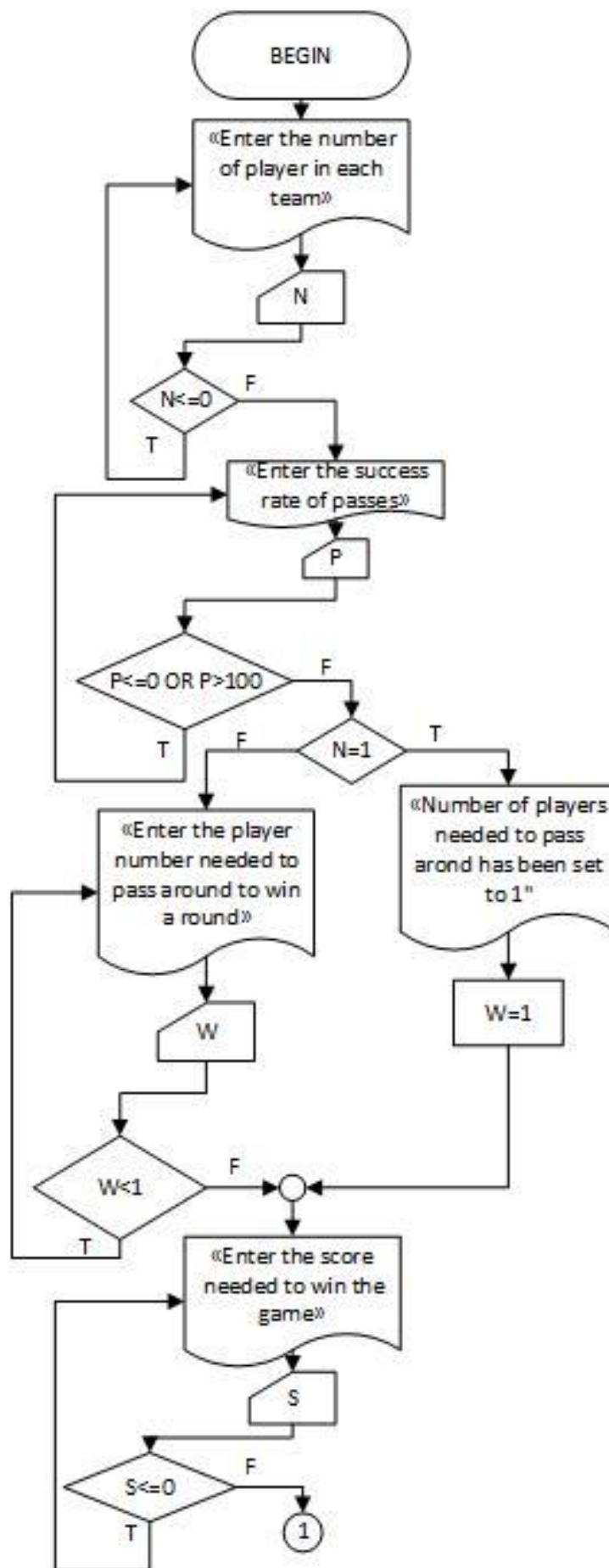
team: Indicator of the team which have the ball

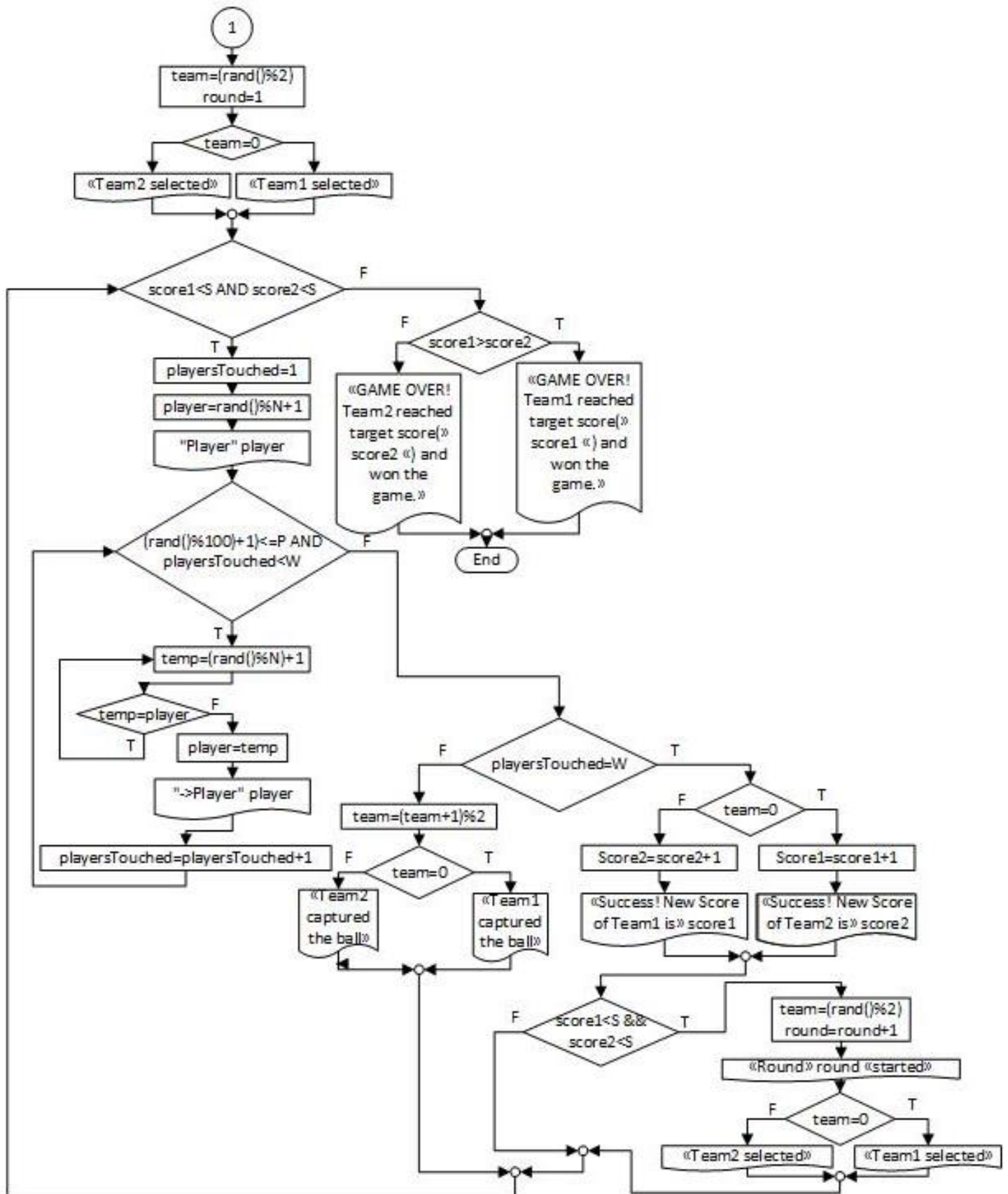
playersTouched: Number of players touched the ball while passing

temp: temporary

round:round number

#### 4.Flowchart





## 5.Summary

Project is completed with an optimized and stable algorithm and it has no setbacks or limitations.