

CM1601 Programming Fundamentals

Case study – 4

Group 17

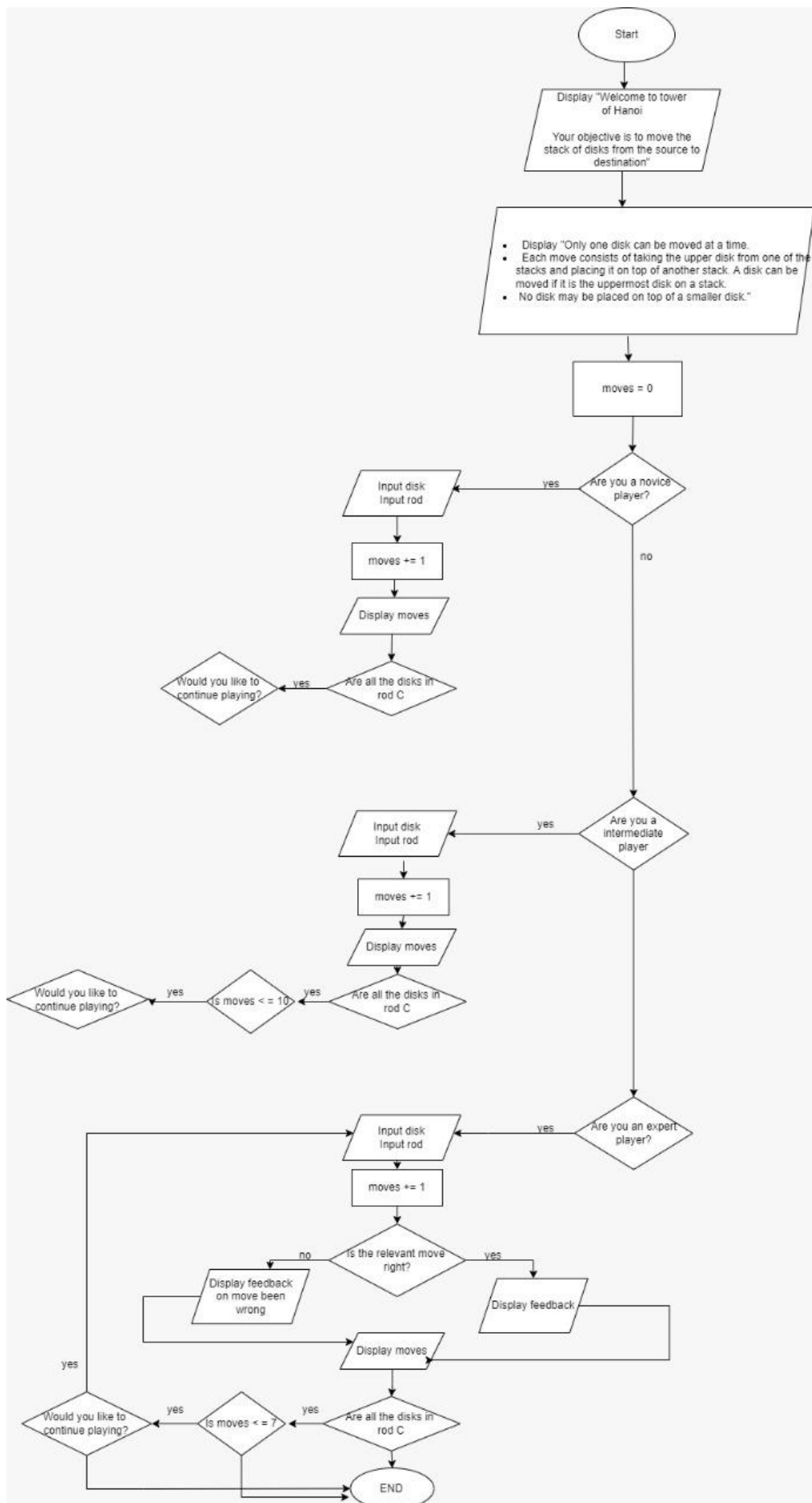
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1)



2)

Start

DISPLAY("Welcome to tower of Hanoi")

DISPLAY("Your objective is to move the stack of disks from the source to destination")

DISPLAY("• Only one disk can be moved at a time.")

DISPLAY("• Each move consists of taking the upper disk from one of the stacks and placing it on top of another stack i.e.,

a disk can only be moved if it is the uppermost disk on a stack.")

DISPLAY("• No disk may be placed on top of a smaller disk.")

moves = 0

option = STR(INPUT("ENTER 'Y' to play,else enter any letter"))

WHILE moves == TRUE and option == "Y" DO:

 playerType = STR(INPUT("ENTER the Type of player you are;
Novice,Intermediate,Expert: "))

 IF playerType == "Novice" THEN:

 INPUT(disk,rod)

 moves = moves + 1

 DISPLAY(moves)

 IF all the disks in rod C THEN:

 IF playerType == "Intermediate" THEN:

 INPUT(disk,rod)

 moves = moves + 1

 DISPLAY(moves)

 IF playerType == "Expert" THEN:

 INPUT(disk,rod)

 moves = moves + 1

DISPLAY(moves)