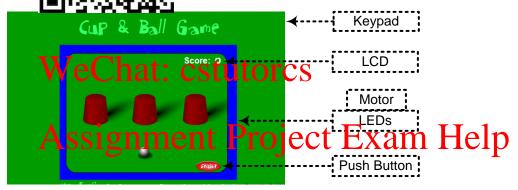
# 程序代写代数CS编程辅导

#### **Description:**

Cup and cups and you guit is correct or lower try on this game.

game where a ball is shuffled under three the ball. For each guess, you gain one point if wrong. (Click the picture in Figure 1 for a fun



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In this project, you will be working **individually** to develop a system, using the AVR Lab board, to simulate the game will some modifications).

In this system, the push button is used to start the game; Three LEDs are used to represent the three cups, and these LEDs together with the motor are also used to indicate the ball stiffing amobilities free cups; the latest ball stiffing amobilities free cups; the player to make a guess; the player's score is displayed on LCD, as indicated in Figure 1.

For the LED bar on the lab board, two groups of LEDs are used, as shown in Figure 2. Three LEDs, called *cup LED*s, are associated with three cups (as mentioned before) and the four LEDs of the other group work as a result indicator for a guess. When a guess is correct, the indicator will flash.

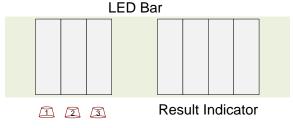
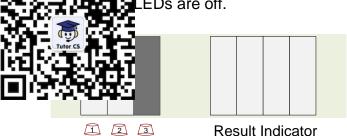


Figure 2

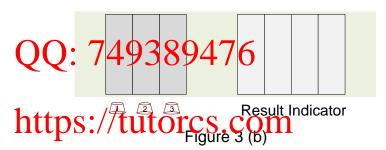
Each operation of the system and the related inputs/outputs are described below.

- 1. After the simulation system is turned on (i.e. the lab board is powered on), the system is initialized and the ball is with an arbitrarily cup. In this case,
  - a. "Read
  - is on, as illustrated in Figure 3 (a), where the b. The c EDs are off. ball is

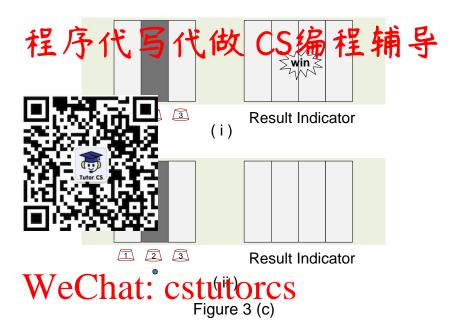


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- 2. When the push button is pressed, the game starts and the ball is shuffled
  - under the three cups in this case of Project Exam Help
    - b. Motor spins:
    - c. Three cup LEDs are all on, but in dimmed light; other LEDs remain off, as Shpyrighi Figure (ptorcs @ 163.com



- 3. When the player wants to make a guess for the ball position by pressing the push button again, the ball shuffle stops. In this case,
  - a. The motor stops:
  - b. The three cup LEDs remain dimmed, as shown in Figure (3)(b);
  - c. After the player keys in the ball position on the key pad, the cups are removed, the ball position is uncovered and the score is determined. In this case.
    - i. The cup LED with the ball is fully on, as illustrated in Figure 3 (c), where the ball is now with Cup 2;
    - ii. If the player's guess is correct, the score on the LCD is incremented by 1 and the indicator will flash a few times, as illustrated in Figure 3 (c)(i); otherwise,
    - iii. If the guess is incorrect, as illustrated in Figure 3 (c)(ii), the score on LCD is decremented.



4. When the player's score becomes zero, the game will be reset to the initial start status; otherwise the game can be continued by pressing the butter for a new round of ball shuffle.

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In your design, you need to decide how to shuffle the ball. You can add extra functions to make your design better (which is optional) and you are also allowed to make assumptions that you think are necessary but not given in this project specification.

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### Reference

[1] https://www.megafungames.com/games/cup\_game/

### Submission Information: 程序代写代做 CS编程辅导

The following items should be submitted:

- 1. Source code. Your program should be well commented.
- 3. Design manual describes how you design the design th

Both manuals slate and the lab boal and the lab boal and the given manuals.

## Grading WeChat: cstutorcs

The project is worth 15% of your course result and will be marked under the following criteria: Assignment Project Exam Help

- Implementation to be demonstrated in lab (75%):
  - Adherence to specification
  - o Implementation of all specified functions and the related inputs and outputs.
- Code Style (5%):
  - Easy to read 7.49389476
    Well documented 9389476
- User Manual (5%)
  - Clear description
  - o claritisp sistructibitores.com
- Design Manual (15%)
  - o Adherence to specification
  - Readability and completeness

Demonstration: your lab class in Week 13.

Hard copy submission: the two manuals, your lab class in Week 13.

Electronic submission: the source code, Friday Week 13