

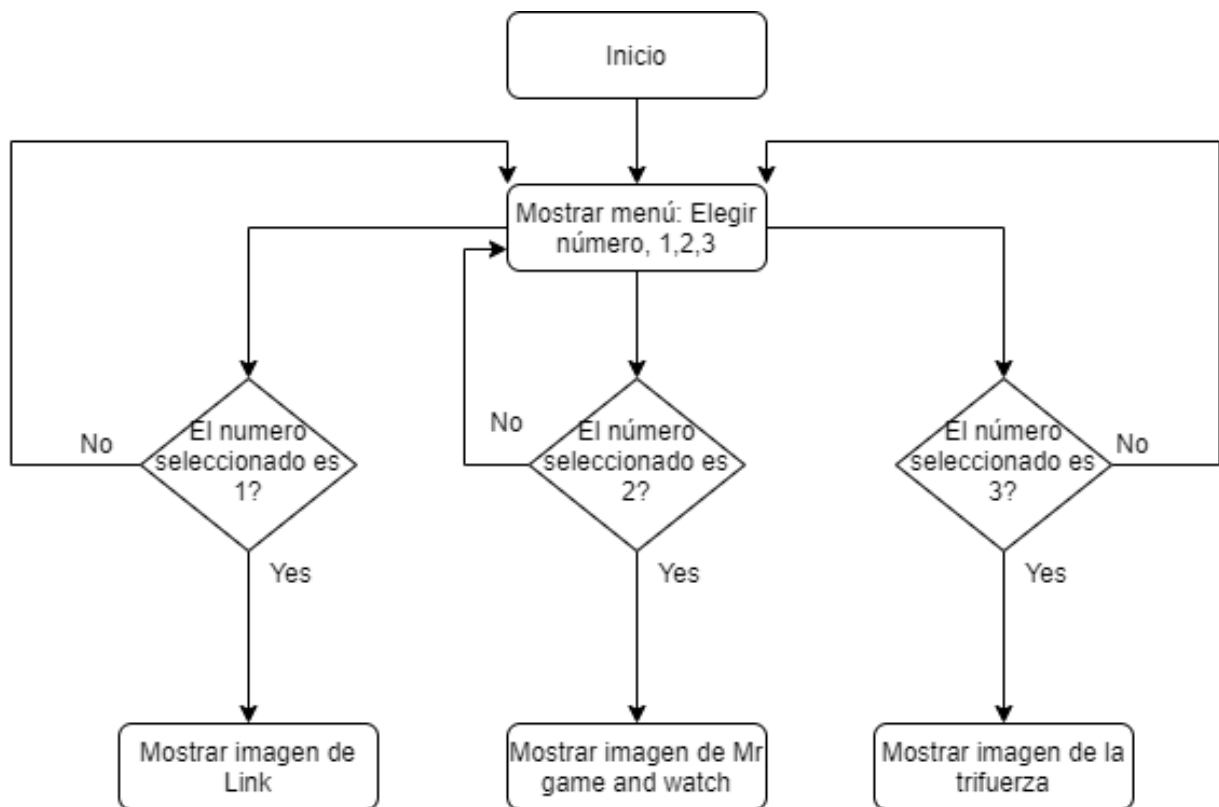
Laboratorio No. 5

Almacenamiento SD

Link de GitHub: <https://github.com/mon19379/DIGITAL2.git>

Link Video: https://youtu.be/ETXTn_kuzsl

Pseudocódigo:



Código:

```
#include <SPI.h>
#include <SD.h>
int menu;
File myFile;
void setup()
```

```

{
  // Open serial communications and wait for port to open:
  Serial.begin(9600);
  SPI.setModule(0);

  Serial.print("Initializing SD card...");
  // On the Ethernet Shield, CS is pin 4. It's set as an output by default.
  // Note that even if it's not used as the CS pin, the hardware SS pin
  // (10 on most Arduino boards, 53 on the Mega) must be left as an output
  // or the SD library functions will not work.
  pinMode(PA_3, OUTPUT);

  if (!SD.begin(PA_3)) {
    Serial.println("initialization failed!");
    return;
  }
  Serial.println("initialization done.");
  myFile = SD.open("/");
  printDirectory(myFile, 0);

  Serial.println("done!");
  Serial.println("Escoger imagen 1, 2 o 3 ");
  Serial.println("1. Link.txt ");
  Serial.println("2. Mr.Game.txt ");
  Serial.println("3. Tri.txt ");
}

void loop()
{
  menu = Serial.read();
  if (menu == 49) {

```

```

// re-open the file for reading:
myFile = SD.open("Link.txt");
if (myFile) {
    Serial.println("Link.txt:");
    // read from the file until there's nothing else in it:
    while (myFile.available()) {
        Serial.write(myFile.read());
    }
    // close the file:
    myFile.close();
} else {
    // if the file didn't open, print an error:
    Serial.println("Escoger imagen 1, 2 o 3 ");
    Serial.println("1. Link.txt ");
    Serial.println("2. Mr.Game.txt ");
    Serial.println("3. Tri.txt ");
}
Serial.println("Escoger imagen 1, 2 o 3 ");
Serial.println("1. Link.txt ");
Serial.println("2. Mr.Game.txt ");
Serial.println("3. Tri.txt ");
}
if (menu == 50) {
    // re-open the file for reading:
    myFile = SD.open("Mrgame.txt");
    if (myFile) {
        Serial.println("Mrgame.txt:");

        // read from the file until there's nothing else in it:
        while (myFile.available()) {

```

```

        Serial.write(myFile.read());
    }
    // close the file:
    myFile.close();
} else {
    // if the file didn't open, print an error:
    Serial.println("Escoger imagen 1, 2 o 3 ");
    Serial.println("1. Link.txt ");
    Serial.println("2. Mr.Game.txt ");
    Serial.println("3. Tri.txt ");
}
Serial.println("Escoger imagen 1, 2 o 3 ");
Serial.println("1. Link.txt ");
Serial.println("2. Mr.Game.txt ");
Serial.println("3. Tri.txt ");
}
if (menu == 51) {
    // re-open the file for reading:
    myFile = SD.open("Tri.txt");
    if (myFile) {
        Serial.println("Tri.txt:");

        // read from the file until there's nothing else in it:
        while (myFile.available()) {
            Serial.write(myFile.read());
        }
        // close the file:
        myFile.close();
    } else {
        // if the file didn't open, print an error:

```

```

    Serial.println("Escoger imagen 1, 2 o 3 ");
    Serial.println("1. Link.txt ");
    Serial.println("2. Mr.Game.txt ");
    Serial.println("3. Tri.txt ");
}

Serial.println("Escoger imagen 1, 2 o 3 ");
Serial.println("1. Link.txt ");
Serial.println("2. Mr.Game.txt ");
Serial.println("3. Tri.txt ");
}
}

void printDirectory(File dir, int numTabs) {
    while (true) {
        File entry = dir.openNextFile();
        if (! entry) {
            // no more files
            break;
        }
        for (uint8_t i = 0; i < numTabs; i++) {
            Serial.print('\t');
        }
        Serial.print(entry.name());
        if (entry.isDirectory()) {
            Serial.println(" ");
        } else {
            // files have sizes, directories do not
            Serial.print("\t\t");
            Serial.println(entry.size());
        }
        entry.close();
    }
}

```

}

}