



Pseudocodigo

Manejo de memoria SD

Configuración de salidas.

```
pinMode(PA_3,OUTPUT);
```

Setup:

```
Serial.begin(115200);  
SPI.setModule(0);  
Serial.print("Initializing SD card..")  
if (!SD.begin(PA_3)) {  
  Serial.println("initialization failed!");  
  return;}  
Serial.println("initialization done.");  
root = SD.open("/");  
printDirectory(root, 0);  
Serial.println("done!");}
```

Programa principal:

```
if (Serial.available()>0){  
  option=Serial.read();
```



```
if(option=='2'){  
root = SD.open("Falcon.txt");  
if (root) {  
while (root.available()) // read from the file until there's nothing else in it  
{Serial.write(root.read());}  
root.close();} // close the file:  
else {  
Serial.println("error opening test.txt");// if the file didn't open, print an error:
```

```
if(option=='3'){  
root = SD.open("Pokeball.txt");  
if (root) {  
while (root.available()) // read from the file until there's nothing else in it:  
{Serial.write(root.read());}  
root.close();} // close the file:  
else {  
Serial.println("error opening test.txt");// if the file didn't open, print an error:
```

```
if(option=='4'){  
root = SD.open("Skull.txt");  
if (root) {  
while (root.available()) // read from the file until there's nothing else in it:  
{Serial.write(root.read());}
```



```
root.close();} // close the file:
```

```
else {
```

```
Serial.println("error opening test.txt");// if the file didn't open, print an error:
```

Función print Directory:

```
while(true) {
```

```
File entry = dir.openNextFile();
```

```
if (! entry) {
```

```
break;
```

```
for (uint8_t i=0; i<numTabs; i++) {
```

```
Serial.print('\t'); }
```

```
Serial.print(entry.name());
```

```
if (entry.isDirectory()) {
```

```
Serial.println("/");
```

```
printDirectory(entry, numTabs+1); }
```

```
else {
```

```
Serial.print("\t\t");
```

```
Serial.println(entry.size(), DEC);
```

```
}
```

```
entry.close() }
```