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int const A = 4;      // nombre de capteurs
int fsrPin[A];
int fsrReading[A];
int fsrVoltage[A];
long fsrForce[A];

int calculForce(int fsrVoltage) {
    unsigned long fsrResistance, fsrConductance;
    int fsrForce;
    fsrResistance = 5000 - fsrVoltage;
    fsrResistance *= 10000;
    fsrResistance /= fsrVoltage;
    fsrConductance = 1000000;
    fsrConductance /= fsrResistance;
    if (fsrConductance <= 1000) {
        fsrForce = fsrConductance / 80;
    } else {
        fsrForce = fsrConductance - 1000;
        fsrForce /= 30;
    }
    return fsrForce;
}

void setup() {
    Serial.begin(9600);
    for(int i = 0; i < A; i++) {
        fsrPin[i] = i;
    }
}

void loop() {
    for(int i = 0; i < A; i++) {
        fsrReading[i] = analogRead(fsrPin[i]);
        Serial.print("Analog reading ");
        Serial.print(i);
        Serial.print(" : ");
        Serial.println(fsrReading[i]);
        fsrVoltage[i] = map(fsrReading[i], 0, 1023, 0, 5000);
        if (fsrVoltage[i] == 0) {
            Serial.println("No pressure");
        } else {

```

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    fsrForce[i] = calculForce(fsrVoltage[i]);
    Serial.print("Force in Newtows : ");
    Serial.println(fsrForce[i]);
  }
}
Serial.println("-----");
delay(1000);
}
```