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#include <iostream>

using namespace std;

void voltageCalculator (double [3]);

int main(void) {

    int x;
    double resistanceArray[3] = {1, 2, 3};

    for(x=0; x < 3; x++)
    {
        cout << "Matrix Location: " << x << " value: " << resistanceArray[x]
        << endl;
    }
    voltageCalculator(resistanceArray);

    return 0;
}

void voltageCalculator(double inputArray[3])
{
    int a;

    for (a =0; a < 3 ; a++)
    {
        double voltage, current = 0.1;
        voltage = current *inputArray[a];
        cout << voltage << endl;
    }
}
```