

// Answer on Question#38820, Programming, C++

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#include <iostream>
using namespace std;
#include <cmath>
#include <conio.h>

int main(){
    int x[] = {3, 2, 8, 8};
    int y[] = {4, 1, 3, 5};

    cout << "Array X = { ";
    for(int i = 0; i < sizeof(x)/sizeof(int); i++){
        cout << x[i] << ' ';
    }
    cout << "}";

    cout<< endl << "Array Y = { ";
    for(int i = 0; i < sizeof(y)/sizeof(int); i++){
        cout << y[i] << ' ';
    }
    cout<< "}";
    cout << endl;

    //=====part A
    int z[sizeof(x)/sizeof(int)];
    for(int i = 0; i < sizeof(y)/sizeof(int); i++){
        z[i] = x[i] + y[i];
    }

    cout<< endl << "Array X + Y = { ";
    for(int i = 0; i < sizeof(y)/sizeof(int); i++){
        cout << z[i] << ' ';
    }
    cout << "}";

    //=====part B
    for(int i = 0; i < sizeof(y)/sizeof(int); i++){
        z[i] = pow((double)x[i],(double)y[i]);
    }
    cout<< endl << endl << "Array X^Y = { ";
    for(int i = 0; i < sizeof(y)/sizeof(int); i++){
        cout << z[i] << ' ';
    }
    cout << "}";

    //=====part C
    double d[2*sizeof(x)/sizeof(double)];
    for(int i = 0; i < 2*sizeof(y)/sizeof(double); i++){
        d[i] = (double)y[i]/x[i];
    }
}
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    }
    cout<< endl << endl << "Array Y/X = { ";
    for(int i = 0; i < 2*sizeof(y)/sizeof(double); i++){
        cout << d[i] << ' ';
    }
    cout << "}";

//=====part D

    for(int i = 0; i < sizeof(y)/sizeof(int); i++){
        z[i] = x[i] * y[i];
    }
    cout<< endl << endl << "Array X*Y = { ";
    for(int i = 0; i < sizeof(y)/sizeof(int); i++){
        cout << z[i] << ' ';
    }
    cout << "}";

    cout << endl <<endl;
    getch();
    return 0;
}

```